



GOVERNOR

Lori F. Kaplan
Commissioner

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

to make Indiana a cleaner, healthier place to live.

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FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) RENEWAL OFFICE OF AIR QUALITY

**Jasper Engine Exchange, Inc.
6400 East Industrial Lane
Leavenworth, Indiana 47137**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-8 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15 and IC 13-17.

Operation Permit No.: F025-15881-00012	
Issued by: Original signed by Paul Dubenetzky, Branch Chief Office of Air Quality	Issuance Date: November 1, 2002

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SECTION A SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-8-3(b)]

The Permittee owns and operates a stationary plant that remanufactures old worn out vehicle engines, transmissions, etc.

Authorized individual:	Vice President
Source Address:	6400 East Industrial Lane, Leavenworth, Indiana 47137
Mailing Address:	P.O. Box 650, Jasper, Indiana 47547
SIC Code:	3714
Source Location Status:	Crawford
County Status:	Attainment for all criteria pollutants
Source Status:	Federally Enforceable State Operating Permit (FESOP) Minor Source, under PSD; Minor Source, Section 112 of the Clean Air Act Not 1 of 28 Source Categories

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-8-3(c)(3)]

This stationary source consists of the following emission units and pollution control devices:

- (a) Three (3) black beauty sand blasters (identified as BLA020, BLA021, and BLA022), each with a maximum nozzle flow rate of 1,020 pounds of grit per hour, controlled by baghouses DUC044, BLA021, and BLA022, respectively, and venting into the building. Baghouse DUC 044 is capable of venting to the atmosphere.
- (b) Three (3) steel shot blasters (identified as BLA026, BLA027, and BLA028), each with a maximum process rate of 800 pounds of steel per hour, controlled by baghouses DUC040, DUC044, and DUC041, respectively, and venting into the building.
- (c) Two (2) soda blaster cabinets (identified as BLA035 and BLA036), constructed in 1999, each with a maximum abrasive usage of 12.5 pounds per hour and a maximum process rate of 1,020 pounds of parts per hour, both controlled by a baghouse DUC046, and venting into the building.
- (d) One (1) salt bath cleaning line, with a maximum throughput rate of 16,000 pounds of parts per hour, consisting of the following:
 - (1) Two (2) molten salt cleaning tanks (identified as KOL013 and KOL014), each with a maximum capacity of 1,200 gallons and each heated by a 2.5 MMBtu/hr natural gas burner, both controlled by a wet scrubber KOL015.
 - (2) Two (2) acid derust tanks (identified as KOL016 and KOL017), each with a maximum capacity of 1,800 gallons.

- (3) One (1) acid rinsing tank (identified as KOL018), with a maximum capacity of 1,200 gallons.
- (4) One (1) alkaline derusting tank (identified as KOL019), with a maximum capacity of 1,200 gallons.
- (5) One (1) alkaline rinsing tank (identified as KOL020), with a maximum capacity of 1,200 gallons.
- (6) One (1) quenching tank (identified as KOL021), with a maximum capacity of 1,800 gallons.
- (7) One (1) hot rinsing tank (identified as KOL022), with a maximum capacity of 1,800 gallons.
- (e) One (1) surface coating booth (identified as PTB006), constructed in 1999, with a maximum capacity of 145 engines and transmissions per day, equipped with High Volume Low Pressure (HVLP) spray guns and using dry filters for overspray control.
- (f) Two (2) natural gas-fired boilers, each with a maximum heat input capacity of 17 million British thermal units (MMBtu) per hour, constructed after 1990, and exhausting to stacks FEQ016 and FEQ017, respectively.
- (g) Four (4) natural gas-fired internal combustion engines, each with a maximum rate of 0.725 MMBtu/hr.

A.3 Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-8-3(c)(3)(I)]

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including the following:
 - (1) Seven (7) natural gas-fired heaters, with a total maximum heat input rate of 0.8 MMBtu/hr.
 - (2) One (1) natural gas-fired head oven (identified as PEQ047) with a maximum heat input rate of 0.06 MMBtu/hr.
- (b) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment, including the following:
 - (1) Three (3) Metal Inert Gas (MIG) stations, each with a maximum throughput rate of 9 lbs/hr.
 - (2) Seven (7) stick welding stations, each with a maximum throughput rate of 1.6 lbs/hr.
 - (3) Seven (7) Tungsten Inert Gas (TIG) stations.
 - (4) Three (3) oxyacetylene flame-cutting operations, with a maximum cutting rate of 2 inches per minute.

- (5) Two (2) plasma cutters.
- (c) Machining where an aqueous cutting coolant continuously floods the machining interface, including two (2) machining operations (crankshaft grinding) (identified as CSG015 and CSG016), each with a maximum capacity of 30 gallons.
- (d) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1% by volume.
- (e) Other emission units, not regulated by a NESHAP, with PM₁₀ and SO₂ emissions less than five (5) pounds per hour or twenty-five (25) pounds per day, CO emissions less than twenty-five (25) pounds per day, lead emissions less than six-tenths (0.6) tons per year or three and twenty-nine (3.29) pounds per day, and emitting greater than one (1) pound per day but less than five (5) pounds per day or one (1) ton per year of a single HAP, or emitting greater than one (1) pound per day but less than twelve and five tenths (12.5) pounds per day or two and five tenths (2.5) ton per year of any combination of HAPs:
 - (1) One (1) open top degreaser used for transmission cases and skids (identified as CLT001), with a maximum capacity of 375 gallons mixture of water and water based solvent.
 - (2) One (1) open top degreaser used for transmission cases and skids (identified as CLT002), with a maximum capacity of 375 gallons mixture of water and water based solvent.
 - (3) One (1) open top degreaser used for aluminum head rinse (identified as CLT011), with a maximum capacity of 175 gallons mixture of water and water based solvent.
 - (4) One (1) open top degreaser used for aluminum timing cover rinse (identified as CLT013), with a maximum capacity of 175 gallons mixture of water and water based solvent.
 - (5) One (1) open top degreaser used for transmission skid wash (identified as CLT032), with a maximum capacity of 800 gallons mixture of water and water based solvent.
 - (6) One (1) open top degreaser used for transmission parts hand wash (identified as CLT048), with a maximum capacity of 40 gallons of low VOC solvent (VOC < 5%).
 - (7) One (1) open top degreaser used for transmission parts hand wash (identified as CLT051), with a maximum capacity of 40 gallons mixture of water and water based solvent.
 - (8) One (1) open top degreaser used for transmission prewash (identified as CLT086), with a maximum capacity of 1,800 gallons mixture of water and water based solvent.
 - (9) One (1) open top degreaser used for tumble cleaning of small parts (identified as CLT087), with a maximum capacity of 50 gallons mixture of water and water based solvent.
 - (10) One (1) open top degreaser used for engine block prewash (identified as CLT088), with a maximum capacity of 1,000 gallons mixture of water and water based solvent.

- (11) One (1) open top degreaser used for transmission intermediate wash (identified as CLT089), with a maximum capacity of 1,000 gallons mixture of water and water based solvent.
- (12) One (1) open top degreaser used for head prewash (identified as CLT090), with a maximum capacity of 600 gallons mixture of water and water based solvent.
- (13) One (1) open top degreaser used for converter wash (identified as CLT091), with a maximum capacity of 1,000 gallons mixture of water and water based solvent.
- (14) One (1) open top degreaser used for aluminum head wash (identified as CLT092), with a maximum capacity of 175 gallons mixture of water and water based solvent.
- (15) One (1) open top degreaser used for ultrasonic cleaning of small parts (identified as CLT094), with a maximum capacity of 30 gallons mixture of water and water based solvent.
- (16) One (1) open top degreaser used for differential/axle housing wash (identified as CLT096), with a maximum capacity of 375 gallons mixture of water and water based solvent.
- (17) One (1) open top degreaser used for maintenance cleaning (identified as CLT098), with a maximum capacity of 25 gallons mixture of water and water based solvent.
- (18) One (1) open top degreaser used for rinsing axle housings and differentials, (identified as CLT101), with a maximum capacity of 400 gallons mixture of water and water based solvent.
- (19) One (1) open top degreaser used for transmission cases (identified as CLT102), with a maximum capacity of 100 gallons mixture of water and water based solvent.
- (20) One (1) open top degreaser used for small transmission parts (identified as CLT103), with a maximum capacity of 30 gallons mixture of water and water based solvent.
- (21) One (1) open top degreaser used for small transmission parts (identified as CLT104), with a maximum capacity of 30 gallons mixture of water and water based solvent.
- (22) One (1) open top degreaser used for small transmission parts (identified as CLT106), with a maximum capacity of 30 gallons mixture of water and water based solvent.
- (23) One (1) open top degreaser used for transmission parts hand wash (identified as CLT108), with a maximum capacity of 40 gallons low VOC solvent (VOC content less than 5%).
- (24) One (1) open top degreaser used for crank wash (identified as CLT110), with a maximum capacity of 350 gallons mixture of water and water based solvent.
- (25) One (1) open top degreaser used for diesel engine blocks (identified as CLT114), with a maximum capacity of 1,100 gallons mixture of water and water based solvent.

- (26) One (1) open top degreaser used for diesel engine parts (identified as CLT115), with a maximum capacity of 1,100 gallons mixture of water and water based solvent.
- (27) One (1) open top degreaser used for axle and differential cleaning (identified as CLT123), with a maximum capacity of 20 gallons low VOC solvent (VOC < 5%).
- (28) One (1) open top degreaser used for vehicle servicing (identified as CLT127), with a maximum capacity of 25 gallons mixture of water and water based solvent.
- (29) One (1) open top degreaser used for aluminum timing cover wash (identified as ADJ007), with a maximum capacity of 440 gallons mixture of water and water based solvent.
- (30) One (1) open top degreaser used for diesel block final wash (identified as ADJ012), with a maximum capacity of 440 gallons mixture of water and water based solvent.
- (31) One (1) open top degreaser used for aluminum head wash (identified as ADJ014), with a maximum capacity of 440 gallons mixture of water and water based solvent.
- (32) One (1) open top degreaser used for iron and steel small parts wash (identified as ADJ016), with a maximum capacity of 400 gallons mixture of water and water based solvent.
- (33) One (1) open top degreaser used for block final wash 1 (identified as ADJ027), with a maximum capacity of 440 gallons mixture of water and water based solvent.
- (34) One (1) open top degreaser used for block final wash 2 (identified as ADJ028), with a maximum capacity of 440 gallons mixture of water and water based solvent.
- (35) One (1) open top degreaser used for head final wash (identified as ADJ029), with a maximum capacity of 440 gallons mixture of water and water based solvent.
- (36) One (1) open top degreaser used for small parts wash (identified as ADJ030), with a maximum capacity of 440 gallons mixture of water and water based solvent.
- (37) One (1) open top degreaser used for aluminum head wash (identified as ADJ031), with a maximum capacity of 440 gallons mixture of water and water based solvent.
- (38) One (1) open top degreaser used for rinsing crankshafts after polishing (identified as CSP006), with a maximum capacity of 30 gallons mixture of water and water based solvent.

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Indiana Department of Environmental Management (IDEM), Office of Air Quality (OAQ) renew a Federally Enforceable State Operating Permit (FESOP).

A.5 Prior Permits Superseded [326 IAC 2-1.1-9.5]

- (a) All terms and conditions of previous permits issued pursuant to permitting programs approved into the state implementation plan have been either
 - (1) incorporated as originally stated,

(2) revised, or

(3) deleted

by this permit.

(b) All previous registrations and permits are superseded by this permit.

SECTION B GENERAL CONDITIONS

B.1 Permit No Defense [IC 13]

Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a FESOP under 326 IAC 2-8.

B.2 Definitions [326 IAC 2-8-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, the applicable definitions found in the statutes or regulations (IC 13-11, 326 IAC 1-2, and 326 IAC 2-7) shall prevail.

B.3 Permit Term [326 IAC 2-8-4(2)]

This permit is issued for a fixed term of five (5) years from the original date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-15-5-3. Subsequent revisions, modifications, or amendments of this permit do not affect the expiration date.

B.4 Enforceability [326 IAC 2-8-6]

Unless otherwise stated, all terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM, the United States Environmental Protection Agency (U.S. EPA) and by citizens in accordance with the Clean Air Act.

B.5 Termination of Right to Operate [326 IAC 2-8-9] [326 IAC 2-8-3(h)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-9.

B.6 Severability [326 IAC 2-8-4(4)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

B.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)] [326 IAC 2-8-5(a)(4)]

-
- (a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The submittal by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall furnish to IDEM, OAQ, within a reasonable time, any information that IDEM, OAQ, may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The submittal by the Permittee does require the certification by the "authorized

individual" as defined by 326 IAC 2-1.1-1(1). Upon request, the Permittee shall also furnish to IDEM, OAQ, copies of records required to be kept by this permit or, for information claimed to be confidential, the Permittee may furnish such records directly to the U. S. EPA along with a claim of confidentiality.[326 IAC 2-8-4(5)(E)]

- (c) The Permittee may include a claim of confidentiality in accordance with 326 IAC 17. When furnishing copies of requested records directly to U. S. EPA, the Permittee may assert a claim of confidentiality in accordance with 40 CFR 2, Subpart B.

B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]

IDEM, OAQ may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for:
 - (1) Enforcement action;
 - (2) Permit termination, revocation and reissuance, or modification; and
 - (3) Denial of a permit renewal application.
- (b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- (c) An emergency does constitute an affirmative defense in an enforcement action provided the Permittee complies with the applicable requirements set forth in condition B, Emergency Provisions.

B.11 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)] [326 IAC 2-8-5(1)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted shall contain certification by an authorized individual of truth, accuracy, and completeness. This certification, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- (b) One (1) certification shall be included, using the attached Certification Form, with each submittal requiring certification.
- (c) An authorized individual is defined at 326 IAC 2-1.1-1(1).

B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. All certifications shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than July 1 of each year to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality

100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
 - (1) The appropriate identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was continuous or intermittent;
 - (4) The methods used for determining the compliance status of the source, currently and over the reporting period consistent with 326 IAC 2-8-4(3); and
 - (5) Such other facts as specified in Sections D of this permit, IDEM, OAQ, may require to determine the compliance status of the source.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

B.13 Preventive Maintenance Plan [326 IAC 1-6-3] [326 IAC 2-8-4(9)] [326 IAC 2-8-5(a)(1)]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall maintain and implement Preventive Maintenance Plans (PMPs), including the following information on each facility:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions; and
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) The Permittee shall implement the PMPs as necessary to ensure that failure to implement a PMP does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) A copy of the PMPs shall be submitted to IDEM, OAQ, upon request and within a reasonable time, and shall be subject to review and approval by IDEM, OAQ. IDEM, OAQ, may require the Permittee to revise its PMPs whenever lack of proper maintenance causes or contributes to any violation. The PMP does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (d) Records of preventive maintenance shall be retained for a period of at least five (5) years. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are

available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.

B.14 Emergency Provisions [326 IAC 2-8-12]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-8-12.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:
 - (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
 - (2) The permitted facility was at the time being properly operated;
 - (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
 - (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAQ and Southwest Regional Office, within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone No.: 1-800-451-6027 (ask for Office of Air Quality, Compliance Section)
or,
Telephone No.: 317-233-5674 (ask for Compliance Section)
Facsimile No.: 317-233-5967
Telephone No.: 1-888-672-8323 or,
Telephone No.: 812-436-2570
Facsimile No.: 812-436-2572

Failure to notify IDEM, OAQ and Southwest Regional Office, by telephone or facsimile within four (4) daytime business hours after the beginning of the emergency, or after the emergency is discovered or reasonably should have been discovered, shall constitute a violation of 326 IAC 2-8 and any other applicable rules. [326 IAC 2-8-12(f)]

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted the attached Emergency Occurrence Report Form or its equivalent, either by mail or facsimile to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.
- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAQ, may require that the Preventive Maintenance Plans required under 326 IAC 2-8-3(c)(6) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAQ, by telephone or facsimile of an emergency lasting more than one (1) hour in accordance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-8 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

Any operations shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

B.15 Deviations from Permit Requirements and Conditions [326 IAC 2-8-4(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provision), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management

Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

using the attached Quarterly Deviation and Compliance Monitoring Report, or its equivalent. A deviation required to be reported pursuant to an applicable requirement that exists independent of this permit, shall be reported according to the schedule stated in the applicable requirement and does not need to be included in this report.

The Quarterly Deviation and Compliance Monitoring Report does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit.
- (c) Emergencies shall be included in the Quarterly Deviation and Compliance Monitoring Report.

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a FESOP modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)] The notification by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAQ determines any of the following:
 - (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]
- (c) Proceedings by IDEM, OAQ, to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-8-8(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAQ, at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAQ, may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.17 Permit Renewal [326 IAC 2-8-3(h)]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAQ and shall include the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in

326 IAC 2-7-1(21) and 326 IAC 2-7-1(40). The renewal application does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, IN 46206-6015

(b) Timely Submittal of Permit Renewal [326 IAC 2-8-3]

(1) A timely renewal application is one that is:

- (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
- (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.

(2) If IDEM, OAQ upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.

(c) Right to Operate After Application for Renewal [326 IAC 2-8-9]

If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until IDEM, OAQ takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAQ, any additional information identified as needed to process the application.

B.18 Permit Amendment or Revision [326 IAC 2-8-10] [326 IAC 2-8-11.1]

(a) Permit amendments and revisions are governed by the requirements of 326 IAC 2-8-10 or 326 IAC 2-8-11.1 whenever the Permittee seeks to amend or modify this permit.

(b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application should be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

(c) The Permittee may implement the administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.19 Operational Flexibility [326 IAC 2-8-15]

- (a) The Permittee may make any change or changes at this source that are described in 326 IAC 2-8-15(b) through (d), without prior permit revision, if each of the following conditions is met:

- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
- (2) Any approval required by 326 IAC 2-8-11.1 has been obtained;
- (3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
- (4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon reasonable request, to public review.

Such records shall consist of all information required to be submitted to IDEM, OAQ, in the notices specified in 326 IAC 2-8-15(b), (c)(1), and (d).

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-8-15(a) and the following additional conditions:

- (1) A brief description of the change within the source;
- (2) The date on which the change will occur;
- (3) Any change in emissions; and
- (4) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted by the Permittee does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

- (c) Emission Trades [326 IAC 2-8-15(c)]
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints of Section (a) of this condition and those in 326 IAC 2-8-15(c).
- (d) Alternative Operating Scenarios [326 IAC 2-8-15(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7). No prior notification of IDEM, OAQ or U.S. EPA is required.

B.20 Permit Revision Requirement [326 IAC 2-8-11.1]

A modification, construction, or reconstruction is governed by the requirements of 326 IAC 2 and 326 IAC 2-8-11.1.

B.21 Inspection and Entry [326 IAC 2-8-5(a)(2)] [IC 13-14-2-2]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAQ, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a FESOP source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

B.22 Transfer of Ownership or Operational Control [326 IAC 2-8-10]

- (a) The Permittee must comply with the requirements of 326 IAC 2-8-10 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The application which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-11(b)(3)]

B.23 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-8-4(6)] [326 IAC 2-8-16]

- (a) The Permittee shall pay annual fees to IDEM, OAQ, within thirty (30) calendar days of receipt of a billing. Pursuant to 326 IAC 2-7-19(b), if the Permittee does not receive a bill from IDEM, OAQ the applicable fee is due April 1 of each year.
- (b) Failure to pay may result in administrative enforcement action, or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAQ, Technical Support and Modeling Section), to determine the appropriate permit fee.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

C.1 Overall Source Limit [326 IAC 2-8] [326 IAC 2-2]

The purpose of this permit is to limit this source's potential to emit to less than major source levels for the purpose of Section 502(a) of the Clean Air Act.

- (a) Pursuant to 326 IAC 2-8:
 - (1) The potential to emit any regulated pollutant, except particulate matter (PM), from the entire source shall be limited to less than one-hundred (100) tons per twelve (12) consecutive month period. This limitation shall also make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable;
 - (2) The potential to emit any individual hazardous air pollutant (HAP) from the entire source shall be limited to less than ten (10) tons per twelve (12) consecutive month period; and
 - (3) The potential to emit any combination of HAPs from the entire source shall be limited to less than twenty-five (25) tons per twelve (12) consecutive month period.
- (b) Pursuant to 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)), potential to emit particulate matter (PM) from the entire source shall be limited to less than two hundred fifty (250) tons per twelve (12) consecutive month period. This limitation shall make the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration (PSD)) not applicable.
- (c) This condition shall include all emission points at this source including those that are insignificant as defined in 326 IAC 2-7-1(21). The source shall be allowed to add insignificant activities not already listed in this permit, provided that the source's potential to emit does not exceed the above specified limits.
- (d) Section D of this permit contains independently enforceable provisions to satisfy this requirement.

C.2 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

C.3 Open Burning [326 IAC 4-1] [IC 13-17-9]

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1.

C.4 Incineration [326 IAC 4-2] [326 IAC 9-1-2(3)]

The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and in 326 IAC 9-1-2.

C.5 Fugitive Dust Emissions [326 IAC 6-4]

The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions).

C.6 Operation of Equipment [326 IAC 2-8-5(a)(4)]

Except as otherwise provided by statute, rule or in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission units vented to the control equipment are in operation.

C.7 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61, Subpart M]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Quality
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

The notice shall include a signed certification from the owner or operator that the information provided in this notification is correct and that only Indiana licensed workers and project supervisors will be used to implement the asbestos removal project. The notifications do not require a certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (e) **Procedures for Asbestos Emission Control**
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4 emission control requirements are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.
- (f) **Indiana Accredited Asbestos Inspector**
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.

Testing Requirements [326 IAC 2-8-4(3)]

C.9 Performance Testing [326 IAC 3-6]

- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAQ.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The protocol submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

- (b) The Permittee shall notify IDEM, OAQ of the actual test date at least fourteen (14) days prior to the actual test date. The notification submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (c) Pursuant to 326 IAC 3-6-4(b), all test reports must be received by IDEM, OAQ not later than forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAQ, if the source submits to IDEM, OAQ, a reasonable written explanation not later than five (5) days prior to the end of the initial forty-five (45) day period.

Compliance Requirements [326 IAC 2-1.1-11]

C.10 Compliance Requirements [326 IAC 2-1.1-11]

The commissioner may require stack testing, monitoring, or reporting at any time to assure compliance with all applicable requirements. Any monitoring or testing shall be performed in accordance with 326 IAC 3 or other methods approved by the commissioner or the U. S. EPA.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

C.11 Compliance Monitoring [326 IAC 2-8-4(3)] [326 IAC 2-8-5(a)(1)]

Unless otherwise specified in this permit, all monitoring and record keeping requirements not already legally required shall be implemented upon issuance of this permit. If required by Section D, the Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment.

Unless otherwise specified in the approval for the new emissions unit, compliance monitoring for new emission units or emission units added through a permit revision shall be implemented when operation begins.

C.12 Monitoring Methods [326 IAC 3] [40 CFR 60] [40 CFR 63]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, 40 CFR 60 Appendix B, 40 CFR 63 or other approved methods as specified in this permit.

C.13 Pressure Gauge and Other Instrument Specifications [326 IAC 2-1.1-11] [326 IAC 2-8-4(3)] [326 IAC 2-8-5(1)]

-
- (a) Whenever a condition in this permit requires the measurement of pressure drop across any part of the unit or its control device, the gauge employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ($\pm 2\%$) of full scale reading.
 - (b) Whenever a condition in this permit requires the measurement of a flow rate, the instrument employed shall have a scale such that the expected normal reading shall be no less than twenty percent (20%) of full scale and be accurate within plus or minus two percent ($\pm 2\%$) of full scale reading.
 - (c) The Permittee may request the IDEM, OAQ approve the use of a pressure gauge or other instrument that does not meet the above specifications provided the Permittee can demonstrate an alternative pressure gauge or other instrument specification will adequately ensure compliance with permit conditions requiring the measurement of pressure drop or other parameters.

Corrective Actions and Response Steps [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

C.14 Risk Management Plan [326 IAC 2-8-4] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present at a source in more than a threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall submit:

- (a) A compliance schedule for meeting the requirements of 40 CFR 68; or

- (b) As a part of the annual compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP).

C.15 Compliance Response Plan - Preparation, Implementation, Records, and Reports [326 IAC 2-8-4]
[326 IAC 2-8-5]

- (a) The Permittee is required to prepare a Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. A CRP shall be submitted to IDEM, OAQ upon request. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee, supplemented from time to time by the Permittee, maintained on site, and is comprised of:
 - (1) Reasonable response steps that may be implemented in the event that a response step is needed pursuant to the requirements of Section D of this permit; and an expected timeframe for taking reasonable response steps.
 - (2) If, at any time, the Permittee takes reasonable response steps that are not set forth in the Permittee's current Compliance Response Plan and the Permittee documents such response in accordance with subsection (e) below, the Permittee shall amend its Compliance Response Plan to include such response steps taken.
- (b) For each compliance monitoring condition of this permit, reasonable response steps shall be taken when indicated by the provisions of that compliance monitoring condition as follows:
 - (1) Reasonable response steps shall be taken as set forth in the Permittee's current Compliance Response Plan; or
 - (2) If none of the reasonable response steps listed in the Compliance Response Plan is applicable or responsive to the excursion, the Permittee shall devise and implement additional response steps as expeditiously as practical. Taking such additional response steps shall not be considered a deviation from this permit so long as the Permittee documents such response steps in accordance with this condition.
 - (3) If the Permittee determines that additional response steps would necessitate that the emissions unit or control device be shut down, the IDEM, OAQ shall be promptly notified of the expected date of the shut down, the status of the applicable compliance monitoring parameter with respect to normal, and the results of the actions taken up to the time of notification.
 - (4) Failure to take reasonable response steps shall constitute a violation of the permit.
- (c) The Permittee is not required to take any further response steps for any of the following reasons:
 - (1) A false reading occurs due to the malfunction of the monitoring equipment and prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied.

- (3) An automatic measurement was taken when the process was not operating.
- (4) The process has already returned or is returning to operating within "normal" parameters and no response steps are required.
- (d) When implementing reasonable steps in response to a compliance monitoring condition, if the Permittee determines that an exceedance of an emission limitation has occurred, the Permittee shall report such deviations pursuant to Section B-Deviations from Permit Requirements and Conditions.
- (e) The Permittee shall record all instances when response steps are taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.
- (f) Except as otherwise provided by a rule or provided specifically in Section D, all monitoring as required in Section D shall be performed when the emission unit is operating, except for time necessary to perform quality assurance and maintenance activities.

**C.16 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-8-4]
[326 IAC 2-8-5]**

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate response actions. The Permittee shall submit a description of these response actions to IDEM, OAQ, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize excess emissions from the affected facility while the response actions are being implemented.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAQ that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAQ may extend the retesting deadline.
- (c) IDEM, OAQ reserves the authority to take any actions allowed under law in response to noncompliant stack tests.

The documents submitted pursuant to this condition do require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

C.17 General Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-5]

- (a) Records of all required data, reports and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Unless otherwise specified in this permit, all record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.18 General Reporting Requirements [326 IAC 2-8-4(3)(C)] [326 IAC 2-1.1-11]

- (a) The source shall submit the attached Quarterly Deviation and Compliance Monitoring Report or its equivalent. Any deviation from permit requirements, the date(s) of each deviation, the cause of the deviation, and the response steps taken must be reported. This report shall be submitted within thirty (30) days of the end of the reporting period. The Quarterly Deviation and Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Quality
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAQ, on or before the date it is due.
- (d) Unless otherwise specified in this permit, any quarterly report required in Section D of this permit shall be submitted within thirty (30) days of the end of the reporting period. The report **(s)** does **(do)** require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) Reporting periods are based on calendar years.

Stratospheric Ozone Protection

C.19 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices pursuant to 40 CFR 82.156
- (b) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

- (a) Three (3) black beauty sand blasters (identified as BLA020, BLA021, and BLA022), each with a maximum nozzle flow rate of 1,020 pounds of grit per hour, controlled by baghouses DUC044, BLA021, and BLA022, respectively, and venting into the building. Baghouse DUC 044 is capable of venting to the atmosphere.
- (b) Three (3) steel shot blasters (identified as BLA026, BLA027, and BLA028), each with a maximum process rate of 800 pounds of steel per hour, controlled by baghouses DUC040, DUC044, and DUC041, respectively, and venting into the building.
- (c) Two (2) soda blaster cabinets (identified as BLA035 and BLA036), constructed in 1999, each with a maximum abrasive usage of 12.5 pounds per hour and a maximum process rate of 1,020 pounds of parts per hour, both controlled by a baghouse DUC046, and venting into the building.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.1.1 PM10 Limit [326 IAC 2-8-4]

Pursuant to FESOP #025-8935-00012, issued March 6, 1998, and 326 IAC 2-8-4 (FESOP), the allowable PM10 emissions from the baghouses, which are used to control the emissions from the blasters and the soda blast cabinets, shall not exceed the limits listed in the table below. These emission limits are equivalent to a total of 68.9 tons of PM10 emissions per year. In conjunction with Conditions D.2.1 and D.3.1, and combined with the PM10 emissions from the boilers, the engines, and the insignificant activities, the PM10 emissions from the entire source are limited to less than 100 tons per year. Therefore, the requirements of 326 IAC 2-7 are not applicable.

Baghouse ID	Process ID	PM10 Emission Limit (lbs/hr)
BLA021	BLA021	1.24
BLA022	BLA022	1.24
DUC040	BLA026	0.5
DUC041	BLA028	0.5
DUC044	BLA020	4.74
	BLA027	
DUC046	BLA035	7.5
	BLA036	

D.1.2 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e) (Manufacturing Processes), the allowable particulate emissions from each blaster and soda blast cabinet shall not exceed the pounds per hour rate listed in the table below.

Process ID	Throughput Rate (lbs/hr)	PM Emission Limit (lbs/hr)
BLA020	1,020	2.61
BLA021	1,020	2.61
BLA022	1,020	2.61
BLA026	800	2.22
BLA027	800	2.22
BLA028	800	2.22
BLA035	1,020	2.61
BLA036	1,020	2.61

The pounds per hour limitation was calculated using the following equation:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per hour}$$

D.1.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and any control devices.

Compliance Determination Requirements

D.1.4 Particulate and PM10 Emissions

In order to comply with Conditions D.1.1 and D.1.2, the baghouses used for particulate control shall be in operation and control emissions from the blasters and the soda blast cabinets at all times the blasters and the soda blast cabinets are in operation.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

D.1.5 Visible Emissions Notations

- Visible emission notations of the stack exhaust from baghouse #DUC044 shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

D.1.6 Parametric Monitoring

The Permittee shall record the total static pressure drop across baghouse #DUC044 used in conjunction with the blasting lines BLA020 and BLA027 at least once per shift when one of these blasting lines is in operation and venting to the atmosphere. When for any one reading, the pressure drop across Baghouse #DUC044 is outside the normal range of 0.5 and 8.5 inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

D.1.7 Baghouse Inspections

An inspection shall be performed within the last month of each calendar quarter of all the baghouses controlling the exhausts from the blasters and the soda blast cabinets when venting to the atmosphere.

D.1.8 Broken or Failed Bag Detection

In the event that bag failure has been observed:

- (a) For multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit (Section B- Emergency Provisions). Within eight (8) business hours of the determination of failure, response steps according to the timetable described in the Compliance Response Plan shall be initiated. For any failure with corresponding response steps and timetable not described in the Compliance Response Plan, response steps shall be devised within eight (8) business hours of discovery of the failure and shall include a timetable for completion. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.
- (b) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.1.9 Record Keeping Requirements

- (a) To document compliance with Condition D.1.5, the Permittee shall maintain records of visible emission notations of the stack exhaust from baghouse DUC 044 when venting to the atmosphere.

- (b) To document compliance with Condition D.1.6, the Permittee shall maintain the following operational parameters for baghouse DUC044 when venting to the atmosphere:
 - (1) Once per shift records of the inlet and outlet differential static pressure during normal operation when venting to the atmosphere.
 - (2) Documentation of the dates vents are redirected.
- (c) To document compliance with Condition D.1.7, the Permittee shall maintain records of the results of the inspections required under Condition D.1.7 and the dates the vents are redirected.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.2

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

- (d) One (1) salt bath cleaning line, with a maximum throughput rate of 16,000 pounds of parts per hour, consisting of the following:
- (1) Two (2) molten salt cleaning tanks (identified as KOL013 and KOL014), each with a maximum capacity of 1,200 gallons and each heated by a 2.5 MMBtu/hr natural gas burner, both controlled by a wet scrubber KOL015.
 - (2) Two (2) acid derust tanks (identified as KOL016 and KOL017), each with a maximum capacity of 1,800 gallons.
 - (3) One (1) acid rinsing tank (identified as KOL018), with a maximum capacity of 1,200 gallons.
 - (4) One (1) alkaline derusting tank (identified as KOL019), with a maximum capacity of 1,200 gallons.
 - (5) One (1) alkaline rinsing tank (identified as KOL020), with a maximum capacity of 1,200 gallons.
 - (6) One (1) quenching tank (identified as KOL021), with a maximum capacity of 1,800 gallons.
 - (7) One (1) hot rinsing tank (identified as KOL022), with a maximum capacity of 1,800 gallons.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.2.1 PM10 Limit [326 IAC 2-8]

Pursuant to 326 IAC 2-8-4 (FESOP), the PM10 emissions from the salt bath cleaning line shall not exceed 0.39 pounds per hour. This limit is equivalent to a total of 1.73 tons of PM10 emissions per year from the cleaning process. In conjunction with Conditions D.1.1 and D.3.1, and combined with the potential PM10 emissions from the boilers, the engines, and the insignificant activities, the PM10 emissions from the entire source are limited to less than 100 tons per year. Therefore, the requirements of 326 IAC 2-7 are not applicable.

D.2.2 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e) (Manufacturing Processes), the allowable particulate emissions from the salt cleaning line shall not exceed 16.5 pounds per hour when operating at a process weight rate of 16,000 pounds per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour; and

P = process weight rate in tons per hour

D.2.3 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and any control devices.

Compliance Determination Requirements

D.2.4 Particulate and PM10 Emissions

In order to comply with Conditions D.2.1 and D.2.2, scrubber KOL015 shall be in operation at all times that the salt bath cleaning line is in operation.

Compliance Monitoring Requirements [326 IAC 2-8-4] [326 IAC 2-8-5(a)(1)]

D.2.5 Visible Emissions Notations

- (a) Visible emission notations of the scrubber (KOL015) stack exhaust shall be performed once per shift during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

D.2.6 Parametric Monitoring

The Permittee shall monitor and record the pressure drop and flow rate of the scrubber KOL015, at least once per shift when the associated salt bath cleaning line is in operation. When for any one reading, the pressure drop across any of the scrubbers is outside the normal range of 34 and 40 inches of water, or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Implementation, Preparation, Records, and Reports. When for any one reading, the flow rate of the scrubber is less than the normal minimum of 165 gallons per minute, or a minimum established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Implementation, Preparation, Records, and Reports. A pressure reading that is outside the above mention range or a flow rate that is below the above mentioned minimum is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports shall be considered a violation of this permit.

The instruments used for determining the pressure drop and flow rate shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

[Note: Based on manufacturer's information, to maintain the manifold pressure in the range of 7.0 to 8.5 psig ensures the minimum flow rate of 165 gallons per minute for the scrubber.]

D.2.7 Scrubber Inspections

An inspection shall be performed within the last month of each calendar quarter of the scrubber controlling the salt cleaning line.

D.2.8 Failure Detection

In the event that a scrubber malfunction has been observed:

Failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions). Failure to take response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports shall be considered a violation of this permit.

Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.2.9 Record Keeping Requirements

- (a) To document compliance with Condition D.2.5, the Permittee shall maintain records of visible emission notations of the scrubber stack exhaust when venting to the atmosphere.
- (b) To document compliance with Condition D.2.6, the Permittee shall maintain records of the following operational parameters for scrubber KOL015 once per shift during normal operation:
 - (1) pressure drop; and
 - (2) flow rate.
- (c) To document compliance with Condition D.2.7, the Permittee shall maintain records of the results of the inspections required under Condition D.2.7.
- (d) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

SECTION D.3 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]:

- (e) One (1) surface coating booth (identified as PTB006), constructed in 1999, with a maximum capacity of 145 engines and transmissions per day, equipped with High Volume Low Pressure (HVLP) spray guns and using dry filters for overspray control.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.3.1 PM10 Limit [326 IAC 2-8-4]

Pursuant to 326 IAC 2-8-4 (FESOP), the PM10 emissions from the coating booth PTB006 shall not exceed 0.4 pounds per hour. This is equivalent to a total of 1.75 tons per year of PM10 emissions from the coating booth. In conjunction with Conditions D.1.1 and D.2.1, and combined with the PM10 emissions from the boilers, the engines, and the insignificant activities, the PM10 emissions from the entire source are limited to less than 100 tons per year. Therefore, the requirements of 326 IAC 2-7 are not applicable.

D.3.2 Volatile Organic Compounds [326 IAC 8-2-9]

- (a) Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), no owner or operator of a facility engaged in the surface coating of miscellaneous metal parts or products may cause, allow, or permit the discharge into the atmosphere of any volatile organic compounds in excess of three and five tenths (3.5) pounds of VOC per gallon of extreme high performance coating excluding water, delivered to a coating applicator.
- (b) Pursuant to 326 IAC 8-2-9 (Miscellaneous Metal Coating Operations), solvent sprayed from the application equipment during clean up or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is complete, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.

D.3.3 Particulate Matter (PM) [40 CFR 52, Subpart P]

Pursuant to 40 CFR 52, Subpart P, the PM from the spray booth PTB006 shall not exceed the pound per hour emission rate established as E in the following formula:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

D.3.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and its control device.

Compliance Determination Requirements

D.3.5 VOC Emissions

Compliance with the VOC content limitation contained in Conditions D.3.2(a) shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) using formulation data supplied by the coating

manufacturer. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

D.3.6 Particulate [326 IAC 6-3-2 (d)]

Pursuant to 326 IAC 6-3-2(d) and in order to comply with Conditions D.3.1 and D.3.3, the dry filters for particulate control shall be in operation in accordance with manufacturer's specifications and control emissions from the spray coating booth PTB006 at all times when this spray booth is in operation.

SECTION D.4

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]

- (f) Two (2) natural gas-fired boilers, each with a maximum heat input capacity of 17 million British thermal units (MMBtu) per hour, constructed after 1990, and exhausting to stacks FEQ016 and FEQ017, respectively.
- (g) Four (4) natural gas-fired internal combustion engines, each with a maximum rate of 0.725 MMBtu/hr.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.4.1 Particulate [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate emission limitations for sources of indirect heating: emission limitations for facilities specified in 326 IAC 6-2-1 (b)), the particulate emissions from each 17 MMBtu/hr boiler shall not exceed 0.44 pounds per MMBtu input.

This limitation is based on the following equation:

$$P_t = \frac{1.09}{Q^{0.26}} \quad \text{Where } P_t = \text{emission rate limit (lbs/MMBtu)} \\ Q = \text{total source heat input capacity (MMBtu/hr)}$$

D.4.2 General Provisions Relating to NSPS [326 IAC 12-1][40 CFR Part 60, Subpart A]

The provisions of 40 CFR Part 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to these boilers except when otherwise specified in 40 CFR Part 60, Subpart Dc.

D.4.3 Particulate Matter and Sulfur Dioxide [40 CFR 60, Subpart Dc][326 IAC 12-1]

These two boilers are subject to 40 CFR 60, Subpart Dc (New Source Performance Standards for Small Industrial - Commercial - Institutional Steam Generation Units). However, there are no applicable emission limitations, only record keeping requirements as described in Condition D.4.5.

D.4.4 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility.

Record Keeping and Reporting Requirement [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.4.5 Record Keeping Requirements [40 CFR 60, Subpart Dc]

- (a) Pursuant to 40 CFR 60.48(c)(g), the Permittee shall maintain the following records to demonstrate compliance with Condition D.4.3:
 - (1) Daily fuel usage; and
 - (2) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period. The natural gas fired boiler certification does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1); and

- (b) Pursuant to 40 CFR 60.48(c)(i), all records required in item (a) shall be maintained by the owner or operator of the affected facilities for a period of two (2) years following the date of such record.

D.4.6 Reporting Requirements

The Permittee shall certify, on the form provided, that natural gas was fired in the boilers at all times during each quarter.

SECTION D.5

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]: Insignificant Activities

- (b) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment, including the following:
- (1) Three (3) Metal Inert Gas (MIG) stations, each with a maximum throughput rate of 9 lbs/hr.
 - (2) Seven (7) stick welding stations, each with a maximum throughput rate of 1.6 lbs/hr.
 - (3) Seven (7) Tungsten Inert Gas (TIG) stations.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.5.1 Particulate [326 IAC 6-3-2]

Pursuant to 326 IAC 6-3-2(e) (Manufacturing Processes), the allowable particulate emissions from each of the welding processes shall not exceed the allowable emission rate based on the following equation:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour; and
P = process weight rate in tons per hour

SECTION D.6

FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-8-4(10)]: Insignificant Activities

- (e) Other emission units, not regulated by a NESHAP, with PM₁₀ and SO₂ emissions less than five (5) pounds per hour or twenty-five (25) pounds per day, CO emissions less than twenty-five (25) pounds per day, lead emissions less than six-tenths (0.6) tons per year or three and twenty-nine (3.29) pounds per day, and emitting greater than one (1) pound per day but less than five (5) pounds per day or one (1) ton per year of a single HAP, or emitting greater than one (1) pound per day but less than twelve and five tenths (12.5) pounds per day or two and five tenths (2.5) ton per year of any combination of HAPs:
- (1) One (1) open top degreaser used for transmission cases and skids (identified as CLT001), with a maximum capacity of 375 gallons mixture of water and water based solvent.
 - (2) One (1) open top degreaser used for transmission cases and skids (identified as CLT002), with a maximum capacity of 375 gallons mixture of water and water based solvent.
 - (3) One (1) open top degreaser used for aluminum head rinse (identified as CLT011), with a maximum capacity of 175 gallons mixture of water and water based solvent.
 - (4) One (1) open top degreaser used for aluminum timing cover rinse (identified as CLT013), with a maximum capacity of 175 gallons mixture of water and water based solvent.
 - (5) One (1) open top degreaser used for transmission skid wash (identified as CLT032), with a maximum capacity of 800 gallons mixture of water and water based solvent.
 - (6) One (1) open top degreaser used for transmission parts hand wash (identified as CLT048), with a maximum capacity of 40 gallons of low VOC solvent (VOC < 5%).
 - (7) One (1) open top degreaser used for transmission parts hand wash (identified as CLT051), with a maximum capacity of 40 gallons mixture of water and water based solvent.
 - (8) One (1) open top degreaser used for transmission prewash (identified as CLT086), with a maximum capacity of 1,800 gallons mixture of water and water based solvent.
 - (9) One (1) open top degreaser used for tumble cleaning of small parts (identified as CLT087), with a maximum capacity of 50 gallons mixture of water and water based solvent.
 - (10) One (1) open top degreaser used for engine block prewash (identified as CLT088), with a maximum capacity of 1,000 gallons mixture of water and water based solvent.
 - (11) One (1) open top degreaser used for transmission intermediate wash (identified as CLT089), with a maximum capacity of 1,000 gallons mixture of water and water based solvent.
 - (12) One (1) open top degreaser used for head prewash (identified as CLT090), with a maximum capacity of 600 gallons mixture of water and water based solvent.

- (13) One (1) open top degreaser used for converter wash (identified as CLT091), with a

SECTION D.6

FACILITY OPERATION CONDITIONS (Continued)

Facility Description [326 IAC 2-8-4(10)]: Insignificant Activities (Continued)

maximum capacity of 1,000 gallons mixture of water and water based solvent.

- (14) One (1) open top degreaser used for aluminum head wash (identified as CLT092), with a maximum capacity of 175 gallons mixture of water and water based solvent.
- (15) One (1) open top degreaser used for ultrasonic cleaning of small parts (identified as CLT094), with a maximum capacity of 30 gallons mixture of water and water based solvent.
- (16) One (1) open top degreaser used for differential/axle housing wash (identified as CLT096), with a maximum capacity of 375 gallons mixture of water and water based solvent.
- (17) One (1) open top degreaser used for maintenance cleaning (identified as CLT098), with a maximum capacity of 25 gallons mixture of water and water based solvent.
- (18) One (1) open top degreaser used for rinsing axle housings and differentials, (identified as CLT101), with a maximum capacity of 400 gallons mixture of water and water based solvent.
- (19) One (1) open top degreaser used for transmission cases (identified as CLT102), with a maximum capacity of 100 gallons mixture of water and water based solvent.
- (20) One (1) open top degreaser used for small transmission parts (identified as CLT103), with a maximum capacity of 30 gallons mixture of water and water based solvent.
- (21) One (1) open top degreaser used for small transmission parts (identified as CLT104), with a maximum capacity of 30 gallons mixture of water and water based solvent.
- (22) One (1) open top degreaser used for small transmission parts (identified as CLT106), with a maximum capacity of 30 gallons mixture of water and water based solvent.
- (23) One (1) open top degreaser used for transmission parts hand wash (identified as CLT108), with a maximum capacity of 40 gallons low VOC solvent (VOC content less than 5%).
- (24) One (1) open top degreaser used for crank wash (identified as CLT110), with a maximum capacity of 350 gallons mixture of water and water based solvent.
- (25) One (1) open top degreaser used for diesel engine blocks (identified as CLT114), with a maximum capacity of 1,100 gallons mixture of water and water based solvent.
- (26) One (1) open top degreaser used for diesel engine parts (identified as CLT115), with a maximum capacity of 1,100 gallons mixture of water and water based solvent.
- (27) One (1) open top degreaser used for axle and differential cleaning (identified as CLT123), with a maximum capacity of 20 gallons low VOC solvent (VOC < 5%).

- (28) One (1) open top degreaser used for vehicle servicing (identified as CLT127), with a maximum capacity of 25 gallons mixture of water and water based solvent.

SECTION D.6

FACILITY OPERATION CONDITIONS (Continued)

Facility Description [326 IAC 2-8-4(10)]: Insignificant Activities (Continued)

- (29) One (1) open top degreaser used for aluminum timing cover wash (identified as ADJ007), with a maximum capacity of 440 gallons mixture of water and water based solvent.
- (30) One (1) open top degreaser used for diesel block final wash (identified as ADJ012), with a maximum capacity of 440 gallons mixture of water and water based solvent.
- (31) One (1) open top degreaser used for aluminum head wash (identified as ADJ014), with a maximum capacity of 440 gallons mixture of water and water based solvent.
- (32) One (1) open top degreaser used for iron and steel small parts wash (identified as ADJ016), with a maximum capacity of 400 gallons mixture of water and water based solvent.
- (33) One (1) open top degreaser used for block final wash 1 (identified as ADJ027), with a maximum capacity of 440 gallons mixture of water and water based solvent.
- (34) One (1) open top degreaser used for block final wash 2 (identified as ADJ028), with a maximum capacity of 440 gallons mixture of water and water based solvent.
- (35) One (1) open top degreaser used for head final wash (identified as ADJ029), with a maximum capacity of 440 gallons mixture of water and water based solvent.
- (36) One (1) open top degreaser used for small parts wash (identified as ADJ030), with a maximum capacity of 440 gallons mixture of water and water based solvent.
- (37) One (1) open top degreaser used for aluminum head wash (identified as ADJ031), with a maximum capacity of 440 gallons mixture of water and water based solvent.
- (38) One (1) open top degreaser used for rinsing crankshafts after polishing (identified as CSP006), with a maximum capacity of 30 gallons mixture of water and water based solvent.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-8-4(1)]

D.6.1 Volatile Organic Compounds (VOCs)

The actual VOC emissions from each degreaser are less than 15 pounds per day. Therefore, the requirements of 326 IAC 8-3 (Organic Solvent Degreasing Operations) are not applicable, pursuant to 326 IAC 8-1-1(b). Any change or modification which may increase the actual VOC emissions from each degreaser to greater than 15 pounds per day must be approved by the Office of Air Quality before any such change may occur.

Compliance Determination Requirements

D.6.2 VOC Emissions

Compliance with the VOC usage limitation contained in Condition D.6.1 shall be determined pursuant to 326 IAC 8-1-4(a)(3) and 326 IAC 8-1-2(a) using formulation data supplied by the coating manufacturer. IDEM, OAQ, reserves the authority to determine compliance using Method 24 in conjunction with the analytical procedures specified in 326 IAC 8-1-4.

Record Keeping Requirements [326 IAC 2-8-4(3)] [326 IAC 2-8-16]

D.6.3 Record Keeping Requirements

- (a) To document compliance with Condition D.6.1, the Permittee shall maintain daily records in accordance with (1) through (3) below for each degreaser using solvents containing VOC. Records maintained for (1) through (3) shall be taken as stated below and shall be complete and sufficient to establish compliance with the VOC usage limit established in Condition D.6.1.
 - (1) The amount and VOC content of each solvent used. Records shall include purchase orders, invoices, and material safety data sheets (MSDS) necessary to verify the type and amount used.
 - (2) A log of the dates of use.
 - (3) The total VOC usage for each day.
- (b) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
CERTIFICATION**

Source Name: Jasper Engine Exchange, Inc.
Source Address: 6400 East Industrial Lane, Leavenworth, Indiana 47137
Mailing Address: P.O. Box 650, Jasper, Indiana 47547
FESOP No.: 025-15881-00012

**This certification shall be included when submitting monitoring, testing reports/results
or other documents as required by this permit.**

Please check what document is being certified:

- 9 Annual Compliance Certification Letter
- 9 Test Result (specify) _____
- 9 Report (specify) _____
- 9 Notification (specify) _____
- 9 Affidavit (specify) _____
- 9 Other (specify) _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE BRANCH
P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
EMERGENCY OCCURRENCE REPORT**

Source Name: Jasper Engine Exchange, Inc.
Source Address: 6400 East Industrial Lane, Leavenworth, Indiana 47137
Mailing Address: P.O. Box 650, Jasper, Indiana 47547
FESOP No.: 025-15881-00012

This form consists of 2 pages

Page 1 of 2

9 This is an emergency as defined in 326 IAC 2-7-1(12)
(The Permittee must notify the Office of Air Quality (OAQ), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and
(The Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:

Control Equipment:

Permit Condition or Operation Limitation in Permit:

Description of the Emergency:

Describe the cause of the Emergency:

If any of the following are not applicable, mark N/A

Page 2 of 2

Date/Time Emergency started:
Date/Time Emergency was corrected:
Was the facility being properly operated at the time of the emergency? Y N Describe:
Type of Pollutants Emitted: TSP, PM-10, SO ₂ , VOC, NO _x , CO, Pb, other:
Estimated amount of pollutant(s) emitted during emergency:
Describe the steps taken to mitigate the problem:
Describe the corrective actions/response steps taken:
Describe the measures taken to minimize emissions:
If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____
Title / Position: _____
Date: _____
Phone: _____

A certification is not required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
NATURAL GAS FIRED BOILER CERTIFICATION**

Source Name: Jasper Engine Exchange, Inc.
Source Address: 6400 East Industrial Lane, Leavenworth, Indiana 47137
Mailing Address: P.O. Box 650, Jasper, Indiana 47547
FESOP No.: 025-15881-00012

9	Natural Gas Only
9	Alternate Fuel burned
From:_____	To:_____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Phone:

Date:

A certification by the authorized individual as defined by 326 IAC 2-1.1-1 is required for this report.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY
COMPLIANCE DATA SECTION**

**FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
QUARTERLY DEVIATION AND COMPLIANCE MONITORING REPORT**

Source Name: Jasper Engine Exchange, Inc.
Source Address: 6400 East Industrial Lane, Leavenworth, Indiana 47137
Mailing Address: P.O. Box 650, Jasper, Indiana 47547
FESOP No.: 025-15881-00012

Months: _____ to _____ Year: _____

Page 1 of 2

This report is an affirmation that the source has met all the requirements stated in this permit. This report shall be submitted quarterly based on a calendar year. Any deviation from the requirements, the date(s) of each deviation, the probable cause of the deviation, and the response steps taken must be reported. Deviations that are required to be reported by an applicable requirement shall be reported according to the schedule stated in the applicable requirement and do not need to be included in this report. Additional pages may be attached if necessary. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD

Permit Requirement (specify permit condition #)

Date of Deviation:

Duration of Deviation:

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

Permit Requirement (specify permit condition #)

Date of Deviation:

Duration of Deviation:

Number of Deviations:

Probable Cause of Deviation:

Response Steps Taken:

Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	
Permit Requirement (specify permit condition #)	
Date of Deviation:	Duration of Deviation:
Number of Deviations:	
Probable Cause of Deviation:	
Response Steps Taken:	

Form Completed By: _____

Title/Position: _____

Date: _____

Phone: _____

Attach a signed certification to complete this report.

November 1, 2002

**Indiana Department of Environmental Management
Office of Air Quality**

**Addendum to the Technical Support Document
for Federally Enforceable State Operating Permit (FESOP) Renewal**

Source Background and Description

Source Name:	Jasper Engine Exchange, Inc.
Source Location:	6400 East Industrial Lane, Leavenworth, Indiana 47137
County:	Crawford
SIC Code:	3714
Operation Permit No.:	F025-15881-00012
Permit Reviewer:	ERG/YC

On September 11, 2002, the Office of Air Quality (OAQ) had a notice published in the Clarion News, Jasper, Indiana, stating that Jasper Engine Exchange, Inc. had applied for a Federally Enforceable State Operating Permit (FESOP) Renewal to operate a vehicle engine repair shop with control. The notice also stated that OAQ proposed to issue a permit for this operation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

On October 15, 2002, Jasper Engine Exchange, Inc. submitted comments on the proposed FESOP Renewal. The summary of the comments is as follows:

Comment 1:

The Permittee stated that the normal pressure drop range of the baghouse #DUC044, which is used to control the emissions from blasters and vents indoors, should be revised to between 0.5 and 8.5 inches of water due to the recent installation of new filters. The original pressure drop range in the draft FESOP is between 0.5 and 5.0 inches of waters. The new pressure range is based on manufacturer's information.

Response to Comment 1:

IDEM, OAQ has determined that the proposed pressure drop range of 0.5 to 8.5 inches of water is acceptable for Baghouse #DUC044. Therefore, Condition D.1.6 has been revised as follows:

D.1.6 Parametric Monitoring

The Permittee shall record the total static pressure drop across baghouse #DUC044 used in conjunction with the blasting lines BLA020 and BLA027 at least once per shift when one of these blasting lines is in operation and venting to the atmosphere. When for any one reading, the pressure drop across Baghouse #DUC044 is outside the normal range of 0.5 and ~~5.0~~ **8.5** inches of water or a range established during the latest stack test, the Permittee shall take reasonable response steps in accordance with Section C - Compliance Response Plan - Preparation, Implementation, Records, and Reports. A pressure reading that is outside the above mentioned range is not a deviation from this permit. Failure to take response steps in accordance with Section C - Compliance Response Plan -

Preparation, Implementation, Records, and Reports, shall be considered a violation of this permit.

The instrument used for determining the pressure shall comply with Section C - Pressure Gauge and Other Instrument Specifications, of this permit, shall be subject to approval by IDEM, OAQ, and shall be calibrated at least once every six (6) months.

November 1, 2002

**Indiana Department of Environmental Management
Office of Air Quality**

**Technical Support Document (TSD) for a Federally Enforceable State
Operating Permit (FESOP) Renewal**

Source Background and Description

Source Name: Jasper Engine Exchange, Inc.
Source Location: 6400 East Industrial Lane, Leavenworth, Indiana 47137
County: Crawford
SIC Code: 3714
Operation Permit No.: F025-15881-00012
Permit Reviewer: ERG/YC

The Office of Air Quality (OAQ) has reviewed a FESOP renewal application from Jasper Engine Exchange, Inc. relating to the operation of a plant that remanufactures old worn out vehicle engines, transmissions, etc. Jasper Engine Exchange, Inc. was issued FESOP 025-8935-00012 on March 6, 1998.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

- *(a) Seven (7) Black Beauty abrasive shot blasters, each with a nozzle flow rate of 1,020 pounds per hour, including the following:
 - (1) Two (2) shot blasters (identified as BLA020 and BLA023), each with a maximum process rate of 1,020 pounds of grit per hour, both controlled by a baghouse DUC044, and venting into the building. Baghouse DUC044 is capable of venting to the atmosphere.
 - (2) Four (4) shot blasters (identified as BLA021, BLA022, BLA024, and BLA025), each with a maximum process rate of 1,020 pounds of grit per hour, controlled by baghouses BLA021, BLA022, BLA024, and BLA025, respectively, and venting into the building.
 - (3) One (1) shot blaster (identified as BLA026), with a maximum process rate of 1,020 pounds of grit per hour, controlled by a baghouse DUC040, and venting into the building.
- *(b) Four (4) steel shot blasters (identified as BLA027, BLA028, BLA029 and BLA030), each with a maximum process rate of 800 pounds of steel per hour, controlled by baghouses DUC044, DUC041, DUC042, and DUC043, respectively, and venting into the building.
- *(c) Five (5) Soda Blast cabinets, each with a maximum process rate of 1,020 pounds of parts per hour, including the following:

- (1) Four (4) Soda Blast cabinets (identified as BLA035, BLA036, BLA037, and BLA038), constructed in 1999, each with a maximum abrasive usage of 12.5 pounds per hour, controlled by a baghouse DUC046, and venting into the building.
- (2) One (1) Soda Blast cabinet (identified as BLA039), constructed in 1999, with a maximum abrasive usage of 12.5 pounds per hour, controlled by a baghouse DUC044, and venting into the building.
- (d) One (1) salt bath cleaning line, with a maximum throughput rate of 16,000 pounds of parts per hour, consisting of the following:
 - (1) Two (2) molten salt cleaning tanks (identified as KOL013 and KOL014), each with a maximum capacity of 1,200 gallons and each heated by a 2.5 MMBtu/hr natural gas burner, both controlled by a wet scrubber KOL015.
 - (2) Two (2) acid derust tanks (identified as KOL016 and KOL017), each with a maximum capacity of 1,800 gallons.
 - (3) One (1) acid rinsing tank (identified as KOL018), with a maximum capacity of 1,200 gallons.
 - (4) One (1) alkaline derusting tank (identified as KOL019), with a maximum capacity of 1,200 gallons.
 - (5) One (1) alkaline rinsing tank (identified as KOL020), with a maximum capacity of 1,200 gallons.
 - (6) One (1) quenching tank (identified as KOL021), with a maximum capacity of 1,800 gallons.
 - (7) One (1) hot rinsing tank (identified as KOL022), with a maximum capacity of 1,800 gallons.
- *(e) Two (2) surface coating booths (identified as PTB006 and PTB007), constructed in 1999, each with a maximum capacity of 145 engines and transmissions per day, equipped with High Volume Low Pressure (HVLP) spray guns and using dry filters for overspray control.
- (f) Two (2) natural gas-fired boilers, each with a maximum heat input capacity of 17 million British thermal units (MMBtu) per hour, constructed after 1990, and exhausting to stacks FEQ016 and FEQ017, respectively.
- (g) Four (4) natural gas-fired internal combustion engines, each with a maximum rate of 0.725 MMBtu/hr.

*Note: The source indicated that the black beauty blasters BLA023, BLA024, BLA025, the steel shot blasters BLA029 and BLA030, the soda blast cabinets BLA037, BLA038, and BLA039, and the surface coating booth PTB007 were not installed. Therefore, these units are removed from this renewal FESOP. The source also stated that BLA026 is a steel shot blaster, instead of a black beauty blaster.

Unpermitted Emission Units and Pollution Control Equipment

There are no unpermitted facilities operating at this source during this review process.

New Emission Units and Pollution Control Equipment

There are no new emission units and pollution control equipment at this source during this review process.

Insignificant Activities

The source also consists of the following insignificant activities, as defined in 326 IAC 2-7-1(21):

- (a) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour, including the following:
 - (1) Seven (7) natural gas-fired heaters, with a total maximum heat input rate of 0.8 MMBtu/hr.
 - (2) One (1) natural gas-fired head oven (identified as PEQ047) with a maximum heat input rate of 0.06 MMBtu/hr.
 - *(3) Four (4) test stands, used to test remanufactured engines, each with a maximum natural gas heat input of 0.086 MMBtu/hr, consuming a maximum of 85.62 cubic feet of natural gas per hour (cf/hr), and used to set up and run a remanufactured engine for a maximum of twelve (12) minutes.
- (b) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment, including the following:
 - (1) Three (3) Metal Inert Gas (MIG) stations, each with a maximum throughput rate of 9 lbs/hr.
 - (2) Seven (7) stick welding stations, each with a maximum throughput rate of 1.6 lbs/hr.
 - (3) Seven (7) Tungsten Inert Gas (TIG) stations.
 - (4) Three (3) oxyacetylene flame-cutting operations, with a maximum cutting rate of 2 inches per minute.
 - (5) Two (2) plasma cutters.
- (c) Machining where an aqueous cutting coolant continuously floods the machining interface, including two (2) machining operations (crankshaft grinding) (identified as CSG015 and CSG016), each with a maximum capacity of 30 gallons.
- (d) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1% by volume.
- (e) Other emission units, not regulated by a NESHAP, with PM₁₀ and SO₂ emissions less than five (5) pounds per hour or twenty-five (25) pounds per day, CO emissions less than twenty-five (25) pounds per day, lead emissions less than six-tenths (0.6) tons per year or three and twenty-nine (3.29) pounds per day, and emitting greater than one (1) pound per day but less than five (5) pounds per day or one (1) ton per year of a single HAP, or emitting greater than one (1) pound per day but less than twelve and five tenths (12.5) pounds per day or two and five tenths (2.5) ton per year of any combination of HAPs:

- (1) One (1) open top degreaser used for transmission cases and skids (identified as CLT001), with a maximum capacity of 375 gallons mixture of water and water based solvent.
- (2) One (1) open top degreaser used for transmission cases and skids (identified as CLT002), with a maximum capacity of 375 gallons mixture of water and water based solvent.
- (3) One (1) open top degreaser used for aluminum head rinse (identified as CLT011), with a maximum capacity of 175 gallons mixture of water and water based solvent.
- (4) One (1) open top degreaser used for aluminum timing cover rinse (identified as CLT013), with a maximum capacity of 175 gallons mixture of water and water based solvent.
- (5) One (1) open top degreaser used for transmission skid wash (identified as CLT032), with a maximum capacity of 800 gallons mixture of water and water based solvent.
- (6) One (1) open top degreaser used for transmission parts hand wash (identified as CLT048), with a maximum capacity of 40 gallons of low VOC solvent (VOC < 5%).
- (7) One (1) open top degreaser used for transmission parts hand wash (identified as CLT051), with a maximum capacity of 40 gallons mixture of water and water based solvent.
- (8) One (1) open top degreaser used for transmission prewash (identified as CLT086), with a maximum capacity of 1,800 gallons mixture of water and water based solvent.
- (9) One (1) open top degreaser used for tumble cleaning of small parts (identified as CLT087), with a maximum capacity of 50 gallons mixture of water and water based solvent.
- (10) One (1) open top degreaser used for engine block prewash (identified as CLT088), with a maximum capacity of 1,000 gallons mixture of water and water based solvent.
- (11) One (1) open top degreaser used for transmission intermediate wash (identified as CLT089), with a maximum capacity of 1,000 gallons mixture of water and water based solvent.
- (12) One (1) open top degreaser used for head prewash (identified as CLT090), with a maximum capacity of 600 gallons mixture of water and water based solvent.
- (13) One (1) open top degreaser used for converter wash (identified as CLT091), with a maximum capacity of 1,000 gallons mixture of water and water based solvent.
- (14) One (1) open top degreaser used for aluminum head wash (identified as CLT092), with a maximum capacity of 175 gallons mixture of water and water based solvent.

- (15) One (1) open top degreaser used for ultrasonic cleaning of small parts (identified as CLT094), with a maximum capacity of 30 gallons mixture of water and water based solvent.
- (16) One (1) open top degreaser used for differential/axle housing wash (identified as CLT096), with a maximum capacity of 375 gallons mixture of water and water based solvent.
- (17) One (1) open top degreaser used for maintenance cleaning (identified as CLT098), with a maximum capacity of 25 gallons mixture of water and water based solvent.
- (18) One (1) open top degreaser used for rinsing axle housings and differentials, (identified as CLT101), with a maximum capacity of 400 gallons mixture of water and water based solvent.
- (19) One (1) open top degreaser used for transmission cases (identified as CLT102), with a maximum capacity of 100 gallons mixture of water and water based solvent.
- (20) One (1) open top degreaser used for small transmission parts (identified as CLT103), with a maximum capacity of 30 gallons mixture of water and water based solvent.
- (21) One (1) open top degreaser used for small transmission parts (identified as CLT104), with a maximum capacity of 30 gallons mixture of water and water based solvent.
- (22) One (1) open top degreaser used for small transmission parts (identified as CLT106), with a maximum capacity of 30 gallons mixture of water and water based solvent.
- (23) One (1) open top degreaser used for transmission parts hand wash (identified as CLT108), with a maximum capacity of 40 gallons low VOC solvent (VOC content less than 5%).
- (24) One (1) open top degreaser used for crank wash (identified as CLT110), with a maximum capacity of 350 gallons mixture of water and water based solvent.
- (25) One (1) open top degreaser used for diesel engine blocks (identified as CLT114), with a maximum capacity of 1,100 gallons mixture of water and water based solvent.
- (26) One (1) open top degreaser used for diesel engine parts (identified as CLT115), with a maximum capacity of 1,100 gallons mixture of water and water based solvent.
- (27) One (1) open top degreaser used for axle and differential cleaning (identified as CLT123), with a maximum capacity of 20 gallons low VOC solvent (VOC < 5%).
- (28) One (1) open top degreaser used for vehicle servicing (identified as CLT127), with a maximum capacity of 25 gallons mixture of water and water based solvent.
- (29) One (1) open top degreaser used for aluminum timing cover wash (identified as ADJ007), with a maximum capacity of 440 gallons mixture of water and water based solvent.

- (30) One (1) open top degreaser used for diesel block final wash (identified as ADJ012), with a maximum capacity of 440 gallons mixture of water and water based solvent.
- (31) One (1) open top degreaser used for aluminum head wash (identified as ADJ014), with a maximum capacity of 440 gallons mixture of water and water based solvent.
- (32) One (1) open top degreaser used for iron and steel small parts wash (identified as ADJ016), with a maximum capacity of 400 gallons mixture of water and water based solvent.
- (33) One (1) open top degreaser used for block final wash 1 (identified as ADJ027), with a maximum capacity of 440 gallons mixture of water and water based solvent.
- (34) One (1) open top degreaser used for block final wash 2 (identified as ADJ028), with a maximum capacity of 440 gallons mixture of water and water based solvent.
- (35) One (1) open top degreaser used for head final wash (identified as ADJ029), with a maximum capacity of 440 gallons mixture of water and water based solvent.
- (36) One (1) open top degreaser used for small parts wash (identified as ADJ030), with a maximum capacity of 440 gallons mixture of water and water based solvent.
- (37) One (1) open top degreaser used for aluminum head wash (identified as ADJ031), with a maximum capacity of 440 gallons mixture of water and water based solvent.
- (38) One (1) open top degreaser used for rinsing crankshafts after polishing (identified as CSP006), with a maximum capacity of 30 gallons mixture of water and water based solvent.

*Note: The source indicated that these four (4) test stands have never been installed at this source; therefore, these units are removed from this renewal FESOP.

Existing Approvals

- (a) FESOP 025-8935-00012, issued on March 6, 1998;
- (b) First Administrative Amendment 025-9696-00012, issued on June 2, 1998; and
- (c) First Significant Permit Revision 025-10581-00012, issued on June 8, 1999.

All conditions from previous approvals were incorporated into this FESOP except the following:

- (a) FESOP 025-8935-00012, issued on March 6, 1998:

Condition D.1.1: Particulate Matter (PM) [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4, the particulate matter (PM) emissions from the two (2) 17 MMBtu/hr boilers shall be limited to 0.1 lbs/MMBtu heat input. The PM allowable emissions shall be determined using the following equation:

$$Pt = \frac{1.09}{Q^{0.26}} \quad \text{Where } Pt = \text{emission rate limit (lbs/MMBtu)} \\ Q = \text{total source heat input capacity (MMBtu/hr)}$$

Changes to original condition:

Based on the equation in 326 IAC 6-2-4, the allowable PM emission rate, when total heat input capacity equals to $17 \times 2 = 34$ MMBtu/hr, should be 0.44 pounds per MMBtu, instead of 0.1 pounds per MMBtu. Therefore, the PM emission limit for each boiler has been corrected to 0.44 pounds per MMBtu in this FESOP.

- (b) Significant Permit Revision 025-10581-00012, issued on June 8, 1999:

Condition D.2.5 required parametric monitoring for baghouse DUC046 be conducted on a daily basis. Condition D.2.7 required parametric monitoring for the scrubber KOL015 be conducted on a weekly basis.

Changes to original condition:

In accordance with IDEM policy, the frequency of parametric monitoring has been changed from 'daily' to 'once per shift'. In addition, the Permittee has indicated that baghouse DUC044 could be vented to the atmosphere, instead of baghouse DUC046. Therefore, parametric monitoring requirements are applied to baghouse DUC044 when it is vented to the atmosphere.

- (c) Significant Permit Revision 025-10581-00012, issued on June 8, 1999:

Conditions D.2.8 required visible emission notations for baghouse DUC046 and the scrubber KOL015 stack exhausts be taken daily.

Changes to original conditions:

In accordance with IDEM policy, the frequency of the visible emission notations has been changed from 'daily' to 'once per shift'. In addition, the Permittee has indicated that baghouse DUC044 is capable of venting to the atmosphere, instead of baghouse DUC046. Therefore, visible emission notation requirements have been applied to baghouse DUC044 when it is vented into the atmosphere.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the FESOP Renewal be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An administratively complete FESOP Renewal application for the purposes of this review was received on April 19, 2002. Additional information was received on June 19, 2002, July 3, 2002, and August 6, 2002.

There was no notice of completeness letter mailed to the source.

Emission Calculations

See Appendix A of this document for detailed emissions calculations (page 1 through 10).

Unrestricted Potential Emissions

This table reflects the unrestricted potential emissions of the source, excluding the emission limits that were contained in the previous FESOP.

Pollutant	Unrestricted Potential Emissions (tons/yr)
PM	389.9
PM-10	362.6
SO ₂	0.11
VOC	12.7
CO	61.9
NO _x	45.5

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

HAP's	Unrestricted Potential Emissions (tons/yr)
MEK	0.18
Glycol Ether	1.14
Triethylamine	0.16
TOTAL	1.66

- (a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of PM₁₀ is are equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) Pursuant to 326 IAC 2-8, this source, otherwise required to obtain a Title V permit, has agreed to accept a permit with federally enforceable limits that restrict PTE to below Title V emission levels. Therefore, this source will be issued a Federally Enforceable State Operating Permit (FESOP).
- (c) Fugitive Emissions
Since this type of operation is not one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive emissions are not counted toward determination of PSD and Emission Offset applicability.

Potential to Emit After Issuance

The source, issued a FESOP on March 6, 1998, has opted to remain a FESOP source, rather than apply for a Part 70 Operating Permit. The table below summarizes the potential to emit, reflecting all limits, of the emission units. Any control equipment is considered enforceable only after issuance of this Federally Enforceable State Operating Permit and only to the extent that the effect of the control equipment is made practically enforceable in the permit. Since the source has not constructed any new emission units, the source's potential to emit is based on the emission units included in the original FESOP. (F025-8935-00012; issued on March 6, 1998).

	Potential to Emit After Issuance (tons/year)						
Process/Facility	PM	PM ₁₀	SO ₂	VOC	CO	NO _x	HAPs
Six (6) blasters	Less than 68.9	Less than 68.9	--	--	--	--	--
Two (2) soda cabinets			--	--	--	--	--
Salt bath cleaning line	Less than 1.73	Less than 1.73	0.01	1.05	1.84	2.19	Negligible
One (1) coating booth	1.75	1.75	--	1.56	--	--	1.48
Two (2) boilers	1.13	1.13	0.09	0.82	12.51	14.89	Negligible
Four (4) engines	0.13	0.13	Negligible	0.38	47.25	28.07	Negligible
Welding operations (insignificant)	4.40	4.40	--	--	--	--	0.07
Degreasing operations (insignificant)	--	--	--	0.51	--	--	Negligible
Insignificant Combustion Activities	0.14	0.14	0.01	1.68	7.91	12.03	Negligible
Total Emissions	Less than 78.1	Less than 78.1	0.11	4.34	61.9	45.5	3.04

County Attainment Status

The source is located in Crawford County.

Pollutant	Status
PM-10	Attainment
SO ₂	Attainment
NO ₂	Attainment
Ozone	Attainment
CO	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Crawford County has been designated as attainment or unclassifiable for ozone.
- (b) Crawford County has been classified as attainment or unclassifiable for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.

Federal Rule Applicability

- (a) The two (2) 17 MMBtu/hr boilers are subject to the New Source Performance Standard, 40 CFR 60, Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units (326 IAC 12) because:

- (1) These two boilers were constructed after June 9, 1989.
- (2) Each boiler has a maximum heat input capacity greater than 10 MMBtu/hr and less than 100 MMBtu/hr.

Pursuant to 40 CFR 60, Subpart Dc (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units), the Permittee shall keep records of the daily fuel usage. The records shall be maintained by the owner or operator of the affected facilities for a period of two (2) years following the date of such record. The boilers are subject to any of the limits in 40 CFR 60, Subpart Dc because both boilers are fired using only natural gas.

- (b) The source does not perform any metal coil surface coating operations. Therefore, the New Source Performance Standards for Metal Coil Surface Coating (40 CFR Part 60.460 - 60.466, Subpart TT) are not applicable to this source.
- (c) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this source.
- (d) The solvents applied for the degreasing operations (insignificant activities) do not contain any halogenated HAP specified in 40 CFR 63.460. Therefore, the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Halogenated Solvent Cleaning (40 CFR Part 63, Subpart T) are not applicable to this source.
- (e) The source does not process any offsite wastewater. Therefore, the National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Offsite Waste and Recovery Operations (40 CFR Part 63, Subpart DD) are not applicable to this source.

State Rule Applicability - Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

This source was constructed in 1990 and modified in 1999. The source is not in 1 of the 28 source categories defined in 326 IAC 2-2-1(p)(1) and the potential to emit of PM and PM10 before control is greater than two hundred and fifty (250) tons per year. However, the source has elected to receive a FESOP and agreed to limit the potential to emit of each criteria pollutant to less than 100 tons per twelve (12) consecutive month period by using the control devices. Therefore, the requirements of 326 IAC 2-2 are not applicable.

326 IAC 2-4.1 (New Sources of Hazardous Air Pollutants)

The source was constructed prior to July 27, 1997 and the HAP emissions from the entire source are less than the major source thresholds. Therefore, the requirements of 326 IAC 2-4.1 are not applicable.

326 IAC 2-8-4 (FESOP)

The potential PM10 emissions from the entire facility are greater than 100 tons per year. Pursuant to 326 IAC 2-8-4, the PM10 emissions shall be limited as follows:

- (a) Pursuant to FESOP #025-8935-00012, issued March 6, 1998, and 326 IAC 2-8-4 (FESOP), the allowable PM10 emissions from the baghouses used to control the emissions from the blasters and the soda blast cabinets shall not exceed the limits listed in the table below:

Baghouse ID	Process ID	PM10 Emission Limit (lbs/hr)
BLA021	BLA021	1.24

Baghouse ID	Process ID	PM10 Emission Limit (lbs/hr)
BLA022	BLA022	1.24
DUC040	BLA026	0.5
DUC041	BLA028	0.5
DUC044	BLA020	4.74
	BLA027	
DUC046	BLA035	7.5
	BLA036	

These emission limits are equivalent to a total of 68.9 tons of PM10 per year. The use of the baghouses with control efficiencies of 99% ensures compliance with these limits.

- (b) The PM10 emissions from the salt bath cleaning line shall not exceed 0.39 pounds per hour. This limit is equivalent to a total of 1.73 tons of PM10 emissions per year. The use of the scrubber KOL015 with a control efficiency of 98% ensures compliance with this limit.
- (c) The PM10 emissions from the coating booth PTB006 shall not exceed 0.4 pounds per hour. This limit is equivalent to a total of 1.75 tons of PM10 emissions per year. According to the emission calculations (see Appendix A), this booth is in compliance with this PM10 emission limit without the use of dry filters for overspray controls.

Combined with the PM10 emissions from the boilers, the natural gas-fired engines, and the insignificant activities, the PM10 emissions from the entire source are limited to less than 100 tons per year. Therefore, the requirements of 326 IAC 2-7 are not applicable.

326 IAC 8-6 (Organic Solvent Emission Limitations)

This source is not subject to the provisions of 326 IAC 8-6 because it was constructed after January 1, 1980, has potential VOC emissions less than 100 tons per year, and is subject to 326 IAC 8-2-9.

326 IAC 2-6 (Emission Reporting)

This source is located in Crawford County and the potential to emit all criteria pollutants is less than one hundred (100) tons per year. Therefore, 326 IAC 2-6 does not apply.

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

State Rule Applicability - Blasters and Soda Blast Cabinets

326 IAC 6-3-2 (Manufacturing Processes)

The allowable particulate emissions from each blaster and soda blast cabinet shall be limited to the pounds per hour limitation calculated with the following equation:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour and
P = process weight rate in tons per hour

The equivalent particulate emission limit for each unit is listed in the table below:

Process ID	Throughput Rate (lbs/hr)	PM Emission Limit (lbs/hr)
BLA020	1,020	2.61
BLA021	1,020	2.61
BLA022	1,020	2.61
BLA026	800	2.22
BLA027	800	2.22
BLA028	800	2.22
BLA035	1,020	2.61
BLA036	1,020	2.61

According to the emission calculations (see Appendix A), the potential to emit PM from each blaster and each soda blast cabinet (after the 99% efficient baghouses) is less than the limit in the table above. Therefore, these blasters and the soda blastive cabinets are in compliance with 326 IAC 6-3-2.

The baghouses shall be in operation at all times the corresponding shot blasters and blast cabinets are in operation in order to comply with these limits.

State Rule Applicability - The Salt Bath Cleaning Line

326 IAC 6-3-2 (Manufacturing Processes)

The allowable particulate emissions from the salt bath cleaning line shall be limited to 16.5 lbs/hr when the process weight rate is 16,000 lbs/hr.

The pounds per hour limitation was calculated with the following equation:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67}$$

where E = rate of emission in pounds per hour and
P = process weight rate in tons per hour

According to the emission calculations (see Appendix A), the potential to emit PM from the salt cleaning bath line, including the emissions from the cleaning process and the natural gas combustion process in the burners, is less than 16.5 lbs/hr. Therefore, the salt bath cleaning line is in compliance with 326 IAC 6-3-2.

State Rule Applicability - The Coating Booth (PTB006)

326 IAC 8-2-9 (Miscellaneous Metal Coating Operations)

This coating booth is used to coat metal parts and the source operates under the paint Standard Industrial Classification Code major group #37. In addition, this booth was constructed after July 1, 1990 and has actual VOC emissions greater than 15 pounds per day. Therefore, this paint booth is subject to 326 IAC 8-2-9 and must comply with the following:

- (a) The VOC content of the coatings applied in the paint booths shall not exceed three and five tenths (3.5) pounds VOC per gallon of coating, excluding water, delivered to the applicators for application of extreme performance coatings.
- (b) Solvent sprayed from the application equipment during clean-up or color changes shall be directed into containers. Such containers shall be closed as soon as such solvent spraying is completed, and the waste solvent shall be disposed of in such a manner that evaporation is minimized.

Based on the MSDS submitted by the Permittee, the VOC content of the coating delivered to the spray coating booth PTB006 is in compliance with the requirements above.

326 IAC 8-1-6 (General Reduction Requirements for VOC Emissions)

The potential VOC emissions from coating booth PTB006 are less than twenty-five (25) tons per year and 326 IAC 8-2-9 applies to this coating booth. Therefore, the requirements of 326 IAC 8-1-6 are not applicable.

326 IAC 6-3-2 (Process Operations)

On June 12, 2002, revisions to 326 IAC 6-3 (Particulate Emission Limitations for Manufacturing Processes) became effective; this rule was previously referred to as 326 IAC 6-3 (Process Operations). As of the date this permit is being issued, these revisions have not been approved by EPA into the Indiana State Implementation Plan (SIP); therefore, the following requirement from the previous version of 326 IAC 6-3 (Process Operations) which has been approved into the SIP will remain applicable requirement until the revisions to 326 IAC 6-3 are approved into the SIP and the condition is modified in a subsequent permit action.

Pursuant to 40 CFR 52, Subpart P, the particulate matter (PM) from the spray coating booth PTB006 shall be limited by the following:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

Under the rule revision, particulate from the spray booth PTB006 shall be controlled by dry filters, and the Permittee shall operate the control device in accordance with manufacturer's specifications.

State Rule Applicability - Two (2) 17 MMBtu/hr Boilers

326 IAC 6-2-4 (PM Emissions for Sources of Indirect Heating)

Pursuant to 326 IAC 6-2-4(a), boilers constructed after September 12, 1983, shall be limited by the following equation:

$$P_t = \underline{\quad 1.09 \quad}$$

$$Q^{0.26}$$

Where

Pt = emission rate limit (lbs/MMBtu)

Q = total source heat input capacity (MMBtu/hr)

The emission rate limit calculated using the equation above is:

$$Pt = \frac{1.09}{(17+17)^{0.26}} = 0.44 \text{ lbs/MMBtu}$$

Therefore, the boilers shall be limited to 0.44 lbs per MMBtu heat input. This emission limit is equivalent to 32.8 tons per year for each boiler. Based on the potential PM emissions calculated using AP-42 emission factor for natural gas-fired boilers (see Appendix A), the boilers are in compliance with 326 IAC 6-2-4.

State Rule Applicability - Insignificant Activities

326 IAC 6-3-2 (Manufacturing Processes)

The welding operations consume more than six hundred twenty-five (625) pounds of wire per day. Therefore, these welding operations are subject to 326 IAC 6-3. Pursuant to 326 IAC 6-3-2(e), the allowable particulate emission rate from the welding operations shall be limited to the pound per hour limitation calculated using the following equation:

Interpolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

326 IAC 6-3-2 (Manufacturing Processes)

The cutting operations process less than three thousand four hundred (3,400) inches per hour of stock of one (1) inch thickness or less. Pursuant to 326 IAC 6-3-1(b)(10), these cutting operations are exempt from the requirements of 326 IAC 6-3-2.

326 IAC 8-3 (Organic Solvent Degreasing Operations)

The actual VOC emissions from each degreaser are less than 15 pounds per day. Pursuant to 326 IAC 8-1-1(b), the degreasers at this source are exempt from the requirements of 326 IAC 8 (Volatile Organic Compound Rules). Pursuant to 326 IAC 8-1-1(c), a daily record on actual VOC usage for each degreaser is required to demonstrate compliance with this limit. Any change or modification which may increase the actual VOC emissions from each degreaser to greater than 15 pounds per day must be approved by the Office of Air Quality before any such change may occur.

Testing Requirements

No stack tests are required for the source because none of the individual emission units emit more than 40% of the total major pollutant emissions.

Compliance Requirements

Permits issued under 326 IAC 2-8 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement

for a more or less continuous demonstration. When this occurs IDEM, OAQ, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-8-4. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance monitoring requirements applicable to this source are as follows:

1. The shot blasters and the soda blast cabinets are controlled by six (6) baghouses (BLA021, BLA022, DUC040, DUC041, DUC044, and DUC046). However, only Baghouse DUC044 is capable of venting to the atmosphere. Therefore, Baghouse DUC 044 has applicable compliance monitoring conditions as specified below:
 - (a) Visible emissions notations of the stack exhaust from Baghouse DUC044 shall be performed once per shift during normal daylight operations when venting to the atmosphere. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.
 - (b) The Permittee shall record the total static pressure drop across Baghouse DUC044 at least once per shift when one of the blasting lines (BLA020 and BLA027) is in operation and venting to the atmosphere. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the baghouse shall be maintained within the range of 0.5 to 5.0 inches of water or a range established during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when the pressure reading is outside of the above mentioned range for any one reading.
 - (c) An inspection shall be performed each calendar quarter of all bags controlling the the shot blasters and the soda blast cabinets. A baghouse inspection shall be performed within the last month of each calendar quarter. Inspections are optional when venting indoors. All defective bags shall be replaced. In the event that bag failure has been observed:
 - (1) for multi-compartment units, the affected compartments will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if there are no visible emissions or if the

event qualifies as an emergency and the Permittee satisfies the emergency provisions of this permit.

- (2) For single compartment baghouses, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the Permittee satisfies the requirements of the emergency provisions of this permit.

These monitoring conditions are necessary because the baghouses used to control PM/PM10 emissions from the blasters and the soda blast cabinets must operate properly to ensure compliance with 326 IAC 6-3 (Manufacturing Processes) and 326 IAC 2-8 (FESOP).

2. The salt bath cleaning line has applicable compliance monitoring conditions as specified below:

- (a) Visible emissions notations of the scrubber stack exhaust (KOL015) shall be performed once per shift during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.
- (b) The Permittee shall monitor and record the pressure drop and flow rate of the scrubber used in conjunction with the salt bath cleaning line, at least once per shift when the associated salt bath cleaning line is in operation. Unless operated under conditions for which the Compliance Response Plan specifies otherwise, the pressure drop across the scrubber shall be maintained within the range of 34 to 40 inches of water, the flow rate of the scrubbers shall be maintained the normal minimum of 165 gallons per minute, or ranges during the latest stack test. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when pressure reading is outside the above mention range, or a flow rate is below the above mentioned minimum is above the above mentioned maximum.

[Note: Based on the manufacturer's information submitted on July 3, 2002, the flow rate is determined by manifold pressure and orifice flow. The installation of the flow meter is not appropriate for this scrubber because of the high impurities contained in the fluid. The manifold pressure is maintained in the range of 7.0 to 8.5 psig to ensure the minimum flow rate of 165 gallons per minute for the scrubber.]

- (c) An inspection shall be performed within the last month of each calendar quarter of the scrubber controlling the salt bath cleaning line. In the event that a scrubber malfunction has been observed, failed units and the associated process will be shut down immediately until the failed units have been repaired or replaced. Operations may continue only if the event qualifies as an emergency and the

Permittee satisfies the requirements of the emergency provisions of this permit (Section B - Emergency Provisions).

These monitoring conditions are necessary because the scrubber (KOL015) used to control the emissions from the salt bath cleaning line must operate properly to ensure compliance with 326 IAC 6-3 (Manufacturing Processes) and 326 IAC 2-8 (FESOP).

Conclusion

The operation of this vehicle transmission and engine remanufacturing plant shall be subject to the conditions of the attached FESOP (No.: F025-15881-00012).

Appendix A: Emissions Calculations**PM and PM10 Emissions****From Six (6) Blasters****Company Name: Jasper Engine Exchange, Inc.****Address City IN Zip: 6400 East Industrial Lane, Leavenworth, IN 47137****FESOP: 025-15881-00012****Reviewer: ERG/YC****Date: August 6, 2002**

Unit ID	Max. Blast Rate (lbs/hr)	PM Emission Factor (lbs/lbs)	Potential PM (lbs/hr)	Potential PM (ton/yr)	PM10 Emission Factor (lbs/lbs PM)	Potential PM10 (lbs/hr)	Potential PM10 (ton/yr)	Baghouse ID	Control Efficiency	PTE of PM (lbs/hr)	PTE of PM (ton/yr)	PTE of PM10 (lbs/hr)	PTE of PM10 (ton/yr)
BLA020	1020	0.01	10.2	44.7	0.86	8.8	38.4	DUC044	99.0%	0.10	0.45	0.09	0.38
BLA021	1020	0.01	10.2	44.7	0.86	8.8	38.4	BLA021	99.0%	0.10	0.45	0.09	0.38
BLA022	1020	0.01	10.2	44.7	0.86	8.8	38.4	BLA022	99.0%	0.10	0.45	0.09	0.38
BLA026	800	0.01	8.0	35.0	0.86	6.9	30.1	DUC040	99.0%	0.08	0.35	0.07	0.30
BLA027	800	0.01	8.0	35.0	0.86	6.9	30.1	DUC044	99.0%	0.08	0.35	0.07	0.30
BLA028	800	0.01	8.0	35.0	0.86	6.9	30.1	DUC041	99.0%	0.08	0.35	0.07	0.30
Total				194.5			167.2				1.94		1.67

Methodology

Emission Factors are adapted from Air Quality Permits by STAPPA ALAPCO, Section 3 for Abrasive Blasting.

PTE = Potential to Emit

Potential PM (lbs/hr) = Max. Blast Rate (lbs/hr) x PM Emission Factor (lbs/lbs)

Potential PM (tons/yr) = Max. Blast Rate (lbs/hr) x PM Emission Factor (lbs/lbs) x 8760 hr/yr x 1 ton/ 2000 lb

Potential PM10 Emissions = Potential PM Emissions x PM10 Emission Factor

Potential to Emit = Potential Emissions x (1 - Control Efficiency)

Appendix A: Emissions Calculations
PM and PM10 Emissions
From Two (2) Soda Blast Cabinets

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 6400 East Industrial Lane, Leavenworth, IN 47137
FESOP: 025-15881-00012
Reviewer: ERG/YC
Date: August 6, 2002

Unit ID	Max. Abrasive Usage (lbs/hr)	*Potential PM/PM10 (lbs/hr)	Potential PM/PM10 (ton/yr)	Baghouse ID	Control Efficiency	Potential to Emit of PM/PM10 (lbs/hr)	Potential to Emit of PM/PM10 (tons/yr)
BLA035	12.5	12.5	54.8	DUC046	99.0%	0.13	0.55
BLA036	12.5	12.5	54.8	DUC046	99.0%	0.13	0.55
Total			109.5				1.1

Methodology

*No emission factors are available for soda blasters. Therefore, assume all of the abrasive is emitted during the blasting process (worst-case scenario) and all the PM emissions are PM10 emissions.

PTE = Potential to Emit after control.

Potential PM/PM10 (lbs/hr) = Max. Abrasive Usage (lbs/hr)

Potential PM/PM10 (tons/yr) = Max. Abrasive Usage (lbs/hr) x 8760 hr/yr x 1 ton/ 2000 lb

Potential to Emit PM/PM10 (lbs/hr) = Potential PM/PM10 Emissions (lbs/hr) x (1 - Control Efficiency)

Potential to Emit PM/PM10 (tons/yr) = Potential PM/PM10 Emissions (lbs/hr) x (1 - Control Efficiency) x 8760 hr/yr x 1 tons/2000 lbs

**Appendix A: Emission Calculations
From Salt Bath Cleaning Line**

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 6400 East Industrial Lane, Leavenworth, IN 47137
FESOP: 025-15881-00012
Reviewer: ERG/YC
Date: August 6, 2002

1. From Cleaning Process:

Emissions are from the decomposition of various oils and lubricants from the parts.

Throughput Rate lbs/hr 16,000	Scrubber Control Efficiency (for PM/PM10 emission control only) 98%		
	Pollutant		
Emission Factor (lbs/lbs)	PM* 0.001117	PM10* 0.001117	VOC 0.000132
Uncontrolled Potential Emission (lbs/hr)	17.87	17.87	2.11
Uncontrolled Potential Emission (tons/yr)	78.28	78.28	9.25
Potential to Emit (lbs/hr)	0.36	0.36	2.11
Potential to Emit (tons/yr)	1.57	1.57	9.25

* Assume all the PM emissions are PM10 emissions.

Methodology

Emission factors were provided by the Permittee based on the mass balance method and test results from a similar salt bath line.

Uncontrolled Potential Emissions (lbs/hr) = Throughput Rate (lbs/hr) x Emission Factors (lbs/lbs)

Uncontrolled Potential Emissions (tons/yr) = Throughput Rate (lbs/hr) x Emission Factors (lbs/lbs) x 8760 hr/yr x 1 ton/2000 lbs

Potential to Emit (lbs/hr) = Throughput Rate (lbs/hr) x Emission Factors (lbs/lbs) x (1 - Control Efficiency)

Potential to Emit (tons/yr) = Throughput Rate (lbs/hr) x Emission Factors (lbs/lbs) x (1 - Control Efficiency) x 8760 lbs/yr x 1 ton/2000 lbs

2. From Two (2) 2.5 MMBtu/hr Natural Gas-Fired Burners

Heat Input Capacity MMBtu/hr 5.0	Potential Throughput MMCF/yr 43.8				
	Pollutant				
Emission Factor in lb/MMCF	PM* 7.6	PM10* 7.6	SO ₂ 0.6	**NO _x 100	VOC 5.5
Potential Emission in tons/yr	0.17	0.17	0.01	2.19	0.12

*PM and PM10 emission factors are condensable and filterable PM10 combined.

**Emission Factors for NO_x: Uncontrolled = 100, Low NO_x Burner = 50, Low NO_x Burners/Flue gas recirculation = 32

Methodology

All Emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF - 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors from AP-42, Chapter 1.4, Tables 1.4-1, 1.4-2, and 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (AP-42 Supplement D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

3. Total Emissions from Salt Bath Cleaning Line:

Pollutant	PM	PM10	SO ₂	NO _x	VOC
Total Uncontrolled Potential Emission (tons/yr)	78.45	78.45	0.01	2.19	9.37
Total Potential to Emit (tons/yr)	1.73	1.73	0.01	2.19	9.37

CO 84.0
1.84

CO
1.84
1.84

Appendix A: Emission Calculations
VOC and PM Emissions
From the Surface Coating Booth (PTB006)

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 6400 East Industrial Lane, Leavenworth, IN 47137
FESOP: 025-15881-00012
Reviewer: ERG/YC
Date: August 6, 2002

Material	Density (Lb/Gal)	Weight % Volatile (H ₂ O & Organics)	Weight % Water	Weight % VOC	Maximum Usage (gal/hour)	Pounds VOC per gallon of coating	Potential VOC (lbs/hr)	Potential VOC (tons/yr)	*PM/PM10 Potential (lb/hr)	*PM/PM10 Potential (ton/yr)	Transfer Efficiency
G. White	9.8	58.60%	45.4%	13.2%	0.24	1.29	0.31	1.37	0.39	1.72	60%
M. T. Gray (F77A503)	8.5	74.00%	56.7%	17.3%	0.24	1.47	0.36	1.56	0.21	0.94	60%
M. T. Gray (77A567)	8.8	63.80%	54.6%	9.2%	0.24	0.81	0.19	0.85	0.31	1.34	60%
**Total(worst case)								1.56		1.72	

* Assume all the PM emissions are PM10 emissions.

** Only one type of coating can be applied for each booth at the same time. Therefore, the worst case scenario is using the highest VOC/PM content coating.

METHODOLOGY

Weight % VOC = Weight % Volatile - Weight % Water

Pounds of VOC per Gallon Coating = (Density (lb/gal) * Weight % VOC)

Potential VOC (lbs/hr) = Pounds VOC per Gallon coating (lb/gal) * Maximum Usage (gals/hr)

Potential VOC (tons/yr) = Pounds VOC per Gallon coating (lb/gal) * Maximum Usage (gal/hr) * (8760 hr/yr) * (1 ton/2000 lbs)

Potential PM/PM10 (lbs/hr) = Max. Usage (gal/hr) * Density (lbs/gal) * (1- Weight % Volatile) * (1-Transfer efficiency)

Potential PM/PM10 (tons/yr) = Max. Usage (gal/hr) * Density (lbs/gal) * (1- Weight % Volatile) * (1-Transfer efficiency) * (8760 hrs/yr) *(1 ton/2000 lbs)

Appendix A: Emission Calculations
HAPs Emissions
From the Surface Coating Booth (PTB006)

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 6400 East Industrial Lane, Leavenworth, IN 47137
FESOP: 025-15881-00012
Reviewer: ERG/YC
Date: August 6, 2002

Material	Density (Lb/Gal)	Gal of Mat. (gal/unit)	Maximum (unit/hour)	Weight % MEK	MEK Emissions (tons/yr)	Weight % Glycol Ethers	Glycol Ethers Emissions (tons/yr)	Weight % Triethylamine	Triethylamine Emissions (tons/yr)
G. White	9.8	0.040	6.04	0.0%	0.00	11.0%	1.14	1.5%	0.16
M. T. Gray (F77A503)	8.5	0.040	6.04	2.0%	0.18	10.0%	0.90	0.9%	0.08
M. T. Gray (77A567)	8.8	0.040	6.04	0.0%	0.00	0.0%	0.00	0.0%	0.00
*Total (worst case)					0.18		1.14		0.16

* Only one type of coating can be applied for each booth at the same time. Therefore, the worst case scenario is using the highest HAP content coating.

Total Combination of HAPs Emissions (tons/yr)

1.48

METHODOLOGY

HAPs emission rate (tons/yr) = Density (lb/gal) x Gal of Material (gal/unit) x Maximum (unit/hr) x Weight % HAP x 8760 hr/yr x 1 ton/2000 lbs

Appendix A: Emission Calculations
Natural Gas Combustion
(MMBtu/hr < 100)
From Two 17 MMBtu/hr Boilers

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 6400 East Industrial Lane, Leavenworth, IN 47137
FESOP: 025-15881-00012
Reviewer: ERG/YC
Date: August 6, 2002

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

34.0

297.8

	Pollutant					
Emission Factor in lb/MMCF	PM*	PM10*	SO2	**NO _x	VOC	CO
	7.6	7.6	0.6	100	5.5	84.0
Potential Emission in tons/yr	1.13	1.13	0.09	14.89	0.82	12.51

*PM and PM10 emission factors are condensable and filterable PM10 combined.

**Emission Factors for NO_x: Uncontrolled = 100, Low NO_x Burner = 50, Low NO_x Burners/Flue gas recirculation = 32

Methodology

All Emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF - 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors from AP-42, Chapter 1.4, Tables 1.4-1, 1.4-2, and 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (AP-42 Supplement D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

**Appendix A: Emission Calculations
Natural Gas Combustion
(MMBtu/hr < 100)
From Four (4) 0.725 MMBtu/hr Engines**

**Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 6400 East Industrial Lane, Leavenworth, IN 47137
FESOP: 025-15881-00012
Reviewer: ERG/YC
Date: August 6, 2002**

Heat Input Capacity
MMBtu/hr

2.90

	Pollutant					
Emission Factor in lb/MMBtu	PM*	PM10**	SO ₂	NO _x ***	VOC	CO***
	9.91E-03	9.91E-03	5.88E-04	2.21	0.0296	3.72
Potential Emission in tons/yr	0.13	0.13	7.47E-03	28.07	0.38	47.25

*PM emission factor is for condensable PM only.

**Assume all the PM emissions are PM10 emissions.

***NO_x and CO emissions factors are the emission factors for 90% -105% gas load (worst case).

Methodology

MMBtu = 1,000,000 Btu

1 CF = 1000 Btu

Emission Factors from AP-42, Chapter 3.2, Table 3.2-3: Uncontrolled Emission Factors for 4-Stroke Rich-Burn Engines, SCC # 2-02-002-53.
(AP-42 Supplement F 08/2000)

Emission (tons/yr) = Heat Input Capacity x Emission Factor (lb/MMBtu) x 8760 hr/yr x 1 ton/2000 lbs

**Appendix A: Emission Calculations
PM and HAP Emissions
From Welding and Cutting Processes (Insignificant)**

**Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 6400 East Industrial Lane, Leavenworth, IN 47137
FESOP: 025-15881-00012
Reviewer: ERG/YC
Date: August 6, 2002**

PROCESS	Number of Stations	Max. electrode consumption per station (lbs/hr)		EMISSION FACTORS* (lb pollutant/lb electrode)				EMISSIONS (lbs/hr)			
				PM=PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr
WELDING											
Metal Inert Gas (MIG)(carbon steel)	3	9		0.0241	0.000034		0.00001	0.651	0.001	0	0.00027
Stick (E7018 electrode)	7	1.6		0.0211	0.0009			0.236	0.010	0	0
Tungsten Inert Gas (TIG)(carbon steel)	7	1.5		0.0055	0.0005			0.058	0.005	0	0

	Number of Stations	Max. Metal Thickness Cut (in.)	Max. Metal Cutting Rate (in./minute)	EMISSION FACTORS* (lb pollutant/1,000 inches cut, 1" thick)**				EMISSIONS (lbs/hr)			
				PM=PM10	Mn	Ni	Cr	PM = PM10	Mn	Ni	Cr
FLAME CUTTING											
Oxyacetylene	3	1.0	2.0	0.1622	0.0005	0.0001	0.0003	0.058	0.000	3.6E-05	0.000
Plasma**	2	0.25	20	0.0039				0.002	0	0	0

EMISSION TOTALS	PM = PM10	Mn	Ni	Cr
Potential Emissions (lbs/hr)	1.01	0.016	0.000	0.000
Potential Emissions (lbs/day)	24.13	0.394	0.001	0.009
Potential Emissions (tons/year)	4.40	0.072	1.58E-04	0.002

*Emission Factors are default values for carbon steel unless a specific electrode type is noted in the Process column.

**Emission Factor for plasma cutting from American Welding Society (AWS). Trials reported for wet cutting of 8 mm thick mild steel with 3.5 m/min cutting speed (at 0.2 g/min emitted). Therefore, the emission factor for plasma cutting is for 8 mm thick Using AWS average values: (0.25 g/min)/(3.6 m/min) x (0.0022 lb/g)/(39.37 in./m) x (1,000 in.) = 0.0039 lb/1,000 in. cut, 8 mm thick.

METHODOLOGY

Welding emissions (lb/hr) = (# of stations) x (max. lbs of electrode used/hr/station) x (emission factor, lb. pollutant/lb. of electrode used)

Cutting emissions (lb/hr) = (# of stations) x (max. metal thickness, in.) x (max. cutting rate, in./min.) x (60 min./hr.) x (emission factor, lb. pollutant/1,000 in. cut, 1" thick)

Plasma cutting emissions (lb/hr) = (# of stations) x (max. cutting rate, in./min.) x (60 min./hr.) x (emission factor, lb. pollutant/1,000 in. cut, 8 mm thick)

Emissions (lbs/day) = emissions (lbs/hr) x 24 hrs/day

Emissions (tons/yr) = emissions (lb/hr) x 8,760 hrs/year x 1 ton/2,000 lbs.

Total HAPS (lbs/hr)
0.001
0.010
0.005

Total HAPS (lbs/hr)
0.000
0.000

Total HAPS
0.02
0.40
0.07

Appendix A: Emission Calculations
VOC Emissions
From the Open Top Degreasers (Insignificant)

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 6400 East Industrial Lane, Leavenworth, IN 47137
FESOP: 025-15881-00012
Reviewer: ERG/YC
Date: August 6, 2002

Unit ID	Purpose of the Degreaser	Capacity (gallons)	Maximum Usage (lbs/yr)	Weight % VOC	*Potential VOC Emissions (tons/yr)
Dry					
ADJ012	Diesel Block Final Wash	440	5200	0.36%	0.0094
ADJ016	Iron and Steel Small Parts Wash	400	650	0.36%	0.0012
ADJ027	Block Final Wash 1	440	5200	0.05%	0.0013
ADJ028	Block Final Wash 2	440	5200	0.05%	0.0013
ADJ029	Head Final Wash	440	5200	0.05%	0.0013
CLT001	Transmission Cases and Skids	375	624	0.05%	0.0002
CLT002	Engine Skid Wash	375	2600	1.00%	0.0130
CLT032	Transmission Skid Wash	800	4200	1.00%	0.0210
CLT086	Transmission Prewash	1800	3400	0.05%	0.0009
CLT087	Tumble Cleaning of Small Parts	50	12480	0.00%	0.0000
CLT088	Engine Block Prewash	1000	5200	0.05%	0.0013
CLT090	Head Prewash	600	5200	0.05%	0.0013
CLT101	Rinsing Axle Housings	400	650	0.05%	0.0002
CLT102	Transmission Cases	100	780	0.05%	0.0002
CLT103	Transmission Small Parts	30	780	0.05%	0.0002
CLT104	Transmission Small Parts	30	780	0.05%	0.0002
CLT106	Transmission Small Parts	30	1300	0.05%	0.0003
CLT110	Crank Wash	350	650	0.05%	0.0002
CLT114	Diesel Engine Blocks	1100	1300	0.05%	0.0003
CLT115	Diesel Engine Parts	1100	1700	0.05%	0.0004
Liquid					
Unit ID	Purpose of the Degreaser	Capacity (gallons)	Max. Usage (gal/yr)	VOC Content (lbs/gal)	Potential VOC (tons/yr)
ADJ007	Aluminum Timing Cover Wash	440	193	0.00	0.0000
ADJ014	Aluminum Head Wash	440	468	0.00	0.0000
ADJ030	Aluminum Small Parts Wash	440	660	0.0059	0.0019
ADJ031	Aluminum Head Wash	440	715	0.00	0.0000
CLT011	Aluminum Head Rinse	175	65	0.00	0.0000
CLT013	Aluminum Timing Cover Rinse	175	65	0.00	0.0000
CLT048	Transmission Parts Hand Wash	40	910	0.36	0.1638
CLT051	Transmission Parts Hand Wash	40	312	0.00	0.0000
CLT089	Transmission Intermediate Wash	1000	1690	0.00	0.0000
CLT091	Converter Wash	1000	390	0.00	0.0000
CLT092	Aluminum Head Wash	175	260	0.00	0.0000
CLT094	Ultrasonic Cleaning of Small Parts	30	34	0.49	0.0083
CLT096	Differential/Axle Housing Wash	375	165	0.01	0.0005
CLT098	Maintenance Cleaning	25	50	0.49	0.0123
CLT108	Transmission Parts Hand Wash	40	1320	0.36	0.2376
CLT123	Axle and Differential Cleaning	20	240	0.36	0.0432
CLT127	Vehicle Service	25	60	0.00	0.0000
CSP006	Rinsing Crankshafts	30	26	0.00	0.0000
Total	Total				0.52

* Assume all the VOC and HAPs in solvents used are completely emitted.

METHODOLOGY

Potential VOC (tons/yr) = Maximum Usage (lbs/yr) x Weight % VOC x (1 ton/2000 lbs)

Potential HAPs (tons/yr) = Maximum Usage (lbs/yr) x Weight % HAPs x (1 ton/2000 lbs)

Appendix A: Emission Calculations
Natural Gas Combustion
(MMBtu/hr < 100)
From Insignificant Combustion Activities

Company Name: Jasper Engine Exchange, Inc.
Address City IN Zip: 6400 East Industrial Lane, Leavenworth, IN 47137
FESOP: 025-15881-00012
Reviewer: ERG/YC
Date: August 6, 2002

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

0.87 (total)

7.6

	Pollutant					
	PM*	PM10*	SO2	**NO _x	VOC	CO
Emission Factor in lb/MMCF	7.6	7.6	0.6	100	5.5	84.0
Potential Emission in tons/yr	0.03	0.03	2.3E-03	0.38	0.02	0.32

*PM and PM10 emission factors are condensable and filterable PM10 combined.

**Emission Factors for NO_x: Uncontrolled = 100, Low NO_x Burner = 50, Low NO_x Burners/Flue gas recirculation = 32

Methodology

All Emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF - 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors from AP-42, Chapter 1.4, Tables 1.4-1, 1.4-2, and 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (AP-42 Supplement D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton